

**C16**

```

118 * Parameters:
119 * None.
120 *
121 * Returns:
122 * The new Combo box
123 *
124 .....
125
126 static ComboBox NEW_CalCreateComboBox (void)
127 {
128     ComboBox newbox; // The new combo box created */
129     ColorPt fgcolor; // The color to set the foreground to */
130     ColorPt bgcolor; // The color to set the background to */
131     FontPtr font; // The font to use for the combo box */
132
133     // Create the combo box and set the defaults
134     newbox = ComboBoxCreate (0);
135     ComboBoxSetLabel (newbox, "");
136     ComboBoxSetClass (newbox, CBOX_TypedDropDownList);
137
138     // Set the resizing so that it doesn't resize at all */
139     WGT_SetResFlags (WGT_RESIZEKEEPCWIDTH | WGT_RESIZEKEEPCHEIGHT |
140     WGT_RESIZEKEEPLLEFT | WGT_RESIZEKEEPCRIGHT);
141
142     // Attempt to get each 'eden' default resource and set it
143     if ((fgcolor = (ColorPt)RES_Find ("eden", "ComboBoxColor") != NULL))
144         WGT_SetForeColor (WGT_FrontNewbox, fgcolor);
145     if ((bgcolor = (ColorPt)RES_Find ("eden", "ComboBoxColor") != NULL))
146         WGT_SetBackColor (WGT_FrontNewbox, bgcolor);
147     if ((font = (FontPtr)RES_Find ("eden", "ComboBoxFont") != NULL))
148         WGT_SetFont (WGT_FrontNewbox, font);
149
150     if ((font = (FontPtr)RES_Find ("eden", "ComboBoxFont") != NULL))
151         WGT_SetFont (WGT_FrontNewbox, font);
152
153     // Return the new box */
154     return (newbox);
155 }

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118 .....
119 * Parameters:
120 * RESID_CalCreateLabelText
121 * Description: (line x1) create a tag to be used for displaying
122 * a single resource time for a day.
123 *
124 .....
125
126 * Returns:
127 * The new Text Area
128 *
129 .....
130
131 static TextPtr NEW_CalCreateLabelText (void)
132 {
133     TextPtr newtext; // The new text area created */
134     ColorPt fgcolor; // The color to set the foreground to */
135     ColorPt bgcolor; // The color to set the background to */
136     PenPtr pen; // The pen to use for the combo box */
137     FontPtr font; // The font to use for the text area */
138
139     // Create the text area and set the defaults
140     newtext = TextCreate (0);
141     TextSetJustif (newtext, TJD_OPFORONLY);
142
143     // Set the resizing so that it doesn't resize at all */
144     WGT_SetResFlags (WGT_RESIZEKEEPCWIDTH | WGT_RESIZEKEEPCHEIGHT |
145     WGT_RESIZEKEEPCLEFT | WGT_RESIZEKEEPCRIGHT);
146
147     // Attempt to get each 'eden' default resource and set it
148     if ((fgcolor = (ColorPt)RES_Find ("eden", "OutputColor") != NULL))
149         WGT_SetForeColor (WGT_FrontNewText, fgcolor);
150     if ((bgcolor = (ColorPt)RES_Find ("eden", "OutputColor") != NULL))
151         WGT_SetBackColor (WGT_FrontNewText, bgcolor);
152     if ((pen = (PenPtr)RES_Find ("eden", "OutputPen") != NULL))
153         WGT_SetPen (WGT_FrontNewText, pen);
154
155     if ((font = (FontPtr)RES_Find ("eden", "OutputFont") != NULL))
156         WGT_SetFont (WGT_FrontNewText, font);
157
158     // Return the new text area */
159     return (newtext);
160 }

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234  /*****
235  * REST_CalSelBoxBox
236  *
237  * Description:
238  * This routine will set the position for the combo box and get
239  * the given day from the coordinates for the day's entire box.
240  *
241  * Parameters:
242  *   dayNumber (I) - the day to update the combo box and get for.
243  *   dayOfr1 (I) - the origin coordinates for the day's box.
244  *   dayOfr2 (I) - the extent coordinates for the day's box.
245  *
246  * Returns:
247  *   None.
248  *
249  *****/
250
251  static void REST_CalSelBoxBox (int dayNumber,
252                                PointIRect dayOfr1,
253                                PointIRect dayOfr2)
254  {
255      RectIRect box; /* Bounding box for the combo box and TSD */
256
257      /* Get the width to leave an offset on each side */
258      box.Ext.X = dayOfr1.X - (2 * DAY_LABEL_OFFSET);
259
260      /* If this is too wide use the max width */
261      if (box.Ext.X > DATE_CBOX_WIDTH)
262      {
263          box.Ext.X = DATE_CBOX_WIDTH;
264      }
265
266      /* Center the box horizontally */
267      box.Ofr1.X = dayOfr1.X * (dayOfr2.X - box.Ext.X) / 2;
268
269      /* Set the height of the box */
270      box.Ext.Y = DATE_CBOX_HEIGHT;
271
272      /* Center the box vertically */
273      box.Ofr1.Y = dayOfr1.Y + (dayOfr2.Y - DATE_TEXT_HEIGHT) / 2;
274
275      /* Set the combo box's bounding box */
276      WOT_SetBox (WOT_PtIRectSelBox(dayNumber), box);
277
278      /* Get the calc area's bounding box */
279      box.Ext.Y = DATE_TEXT_HEIGHT;
280      WOT_SetBox (WOT_PtIRectSelTimeText(dayNumber), box);
281  }

```

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284  /*****
285  * REST_GetDayWidthHeight
286  *
287  * Description:
288  * This routine will determine the current width and height of a day
289  * in the calendar window.
290  *
291  * Parameters:
292  *   width (O) - The width of the days.
293  *   height (O) - The height of the days.
294  *
295  * Returns:
296  *   None.
297  *
298  *****/
299
300  void REST_GetDayWidthHeight (int *width,
301                               int *height)
302  {
303      int numberDays; /* Number of days in the displayed month */
304
305      int panelEx; /* Excenter of the panel */
306      int panelWidth; /* The drawable panel width */
307      int panelHeight; /* The drawable panel height */
308
309      /* Determine the number of days and weeks in the displayed month */
310      numberDays = GETME_DayOfMonth (displayedMonth, displayedYear);
311      numberWeeks = GETME_NumberWeeks (
312          displayedMonth, numberDays);
313
314      /* Get the current extents of the drawing panel */
315      PointIRect WOT_GetExt (
316          WOT_PtIRectCalendarWindow->CalendarPanel);
317
318      panelWidth = panelEx - X - (2 * MARGIN_WIDTH);
319      panelHeight = panelEx - Y - 1;
320
321      /* Get the width and height of each day */
322      *width = panelWidth / DAYS_PER_WEEK;
323      *height = (panelHeight - DATE_LABEL_HEIGHT) / numberWeeks;
324  }

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443 //.....CalendarSelectDay
444 make sure at least one backup was done on that day */
445 numberDays = CTRL_DaysPerMonth (displayedMonth, displayedYear);
446 if ((date > 0) && date <= numberDays) && {
447     backupTimeCount (date-1 > 0))
448 }
449 //
450 // Don't include clicks that are inside the combo box
451 //
452 if (date is more than one backup on the date */
453 if (backupTimeCount(date-1 > 1)
454 {
455     // Get the status */
456     PEN_QuerySize (WGL_GetPen (backuptimebox,date - 1)), &penSize);
457     wglBox = (Rect)Pen (WGL_GetPen (backuptimebox,date - 1));
458     // Get the overall area of the combo box */
459     box_Oct1.x = wglBox-Oct1.x - &penSize.x;
460     box_Oct1.y = wglBox-Oct1.y - &penSize.y;
461     box_Oct1.x = wglBox-Oct1.x + (4 * &penSize.x);
462     box_Oct1.y = wglBox-Oct1.y + (4 * &penSize.y);
463     // Determine if the click was in the box */
464     if (wglBox.ContainsPoint(box, aLoc))
465     {
466         // Confirm if the click was not in a combo box */
467         if (!isTimeBox)
468         {
469             // Return the old selected day (has affect of unselecting) */
470             REST_DeselectDay (BDOL_FALSE);
471             // Select the date that was clicked on */
472             selectedDay = date - 1;
473             // Display the date */
474             selectedYear = displayedYear;
475             // Set the currently selected time */
476             if (backuptimeCount(date-1 == 1)
477             {
478                 // obvious choice, there's only one */
479                 currentSelectedTime = backuptimeSelectedDay[0];
480             }
481             else
482             {
483                 // Get the currently chosen index ( that's what the user sees) */
484                 index = (int) CBX_ChoiceIndex (backuptimebox[selectedDay]);
485                 currentSelectedTime = backuptimeSelectedDay[index];
486             }
487             // Draw the newly selected day */
488             REST_DrawSelectedDay (BDOL_TRUE);
489             // Flag that the selection was accepted */
490             recunStatus = BDOL_TRUE;
491         }
492         else
493         {
494             // Flag that the selection was rejected */
495             recunStatus = BDOL_FALSE;
496         }
497     }
498 }
499 // Determine the date */
500 date = boxNumber - displayMonthTime, tm, wday;
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461 2 // Validate the date,
462 2 make sure at least one backup was done on that day */
463 2 numberDays = CTRL_DaysPerMonth (displayedMonth, displayedYear);
464 2 if ((date > 0) && date <= numberDays) && {
465 2     backupTimeCount (date-1 > 0))
466 2 }
467 2 //
468 2 // Don't include clicks that are inside the combo box
469 2 //
470 2 if (date is more than one backup on the date */
471 2 if (backupTimeCount(date-1 > 1)
472 2 {
473 2     // Get the status */
474 2     PEN_QuerySize (WGL_GetPen (backuptimebox,date - 1)), &penSize);
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476 2     // Get the overall area of the combo box */
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508 2             recunStatus = BDOL_TRUE;
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510 2         else
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512 2             // Flag that the selection was rejected */
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1000 2 }

```





```

631 .....
632 * REST_CalendarSetPrevBackup
633 .....
634 * Description:
635 * This routine will select the previous backup (chronologically) to the
636 * currently selected backup.
637 *
638 * Parameters:
639 * None
640 *
641 * Returns:
642 * BOOL_TRUE - If a previous backup was found and selected
643 * BOOL_FALSE - otherwise
644 *
645 .....
646
647 Boolean REST_CalendarSetPrevBackup (void)
648 {
649     Boolean found = BOOL_FALSE;
650     /* Plug if we found a previous backup */
651     Boolean specus;
652     /* Plug if previous exists for time */
653     Int founday;
654     /* Day of previous day holder */
655     Int tempmonth;
656     /* Temporary month holder */
657     Int index;
658     /* Loop index */
659     Boolean returnstatus = BOOL_FALSE; /* Status to return */
660     U_Long flags;
661
662     IF (TRUE_GetSelected ((TRUE_Per)REST_RestoreWin-AllowPartialBackup))
663     {
664         flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;
665     }
666     else
667     {
668         flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
669     }
670
671     /* Find the previous backup time */
672     /*
673     *
674     */
675     /* If we are in the selected month/year,
676     * move from the current selection */
677     IF ((displayMonth == selectedMonth) &&
678         ((displayYear == selectedYear)))
679     {
680         /* If this is the only backup or the earliest backup of the day */
681         index = (int)(BOX_ChoseSelected(theBackupIndex[selectedDay]));
682         IF ((index != selectedDay) && (index != -1))
683         {
684             (index = backupLinesCount[selectedDay] - 1)
685
686             /* Find the previous day in the month with a backup */
687             founday = selectedDay;
688             found = REST_SetPreviousBackupMonth (&founday);
689
690             /*
691             *
692             */
693             while
694             {
695                 /* There is an earlier backup on this day */
696                 founday = selectedDay;
697                 BOX_GoTo (theBackupIndex[selectedDay], index+1);
698                 BACK_Choose (theBackupIndex[selectedDay], index+1);
699                 found = BOOL_TRUE;
700             }
701         }
702     }
703     return returnstatus;
704 }

```

```

713 .....
714 * If we haven't found it yet, try the prev month */
715 IF (found)
716 {
717     /* First, check if a previous backup exists */
718     BACKUP_LetterViewBackupPosition (currentSelectedTime,
719                                     currentSelectedTime,
720                                     flags);
721     IF (status)
722     {
723         /* Find the previous month with a backup (we know one exists) */
724         tempmonth = displayMonth - 1;
725         while (found)
726         {
727             /* Only consider this month if backups were done in it */
728             IF (BACKUP_BackupExistsMonth (tempmonth, displayYear))
729             {
730                 displayMonth = tempmonth;
731                 REST_UpdateDisplayData();
732             }
733             /* get the last day of the month */
734             /* so we can find the last */
735             founday = GRIME_DayBeforeMonth (
736                 displayMonth, displayYear);
737             found = REST_SetPreviousBackupMonth (&founday);
738             tempmonth--;
739         }
740     }
741     /* If we found one */
742     IF (found)
743     {
744         /* Restore the old selected day (thus affect of unselecting) */
745         REST_DrawSelectedDay (BOOL_FALSE);
746
747         /* Get the selected backup date */
748         selectedMonth = displayMonth;
749         selectedYear = displayYear;
750
751         /* Draw the newly selected day */
752         REST_DrawSelectedDay (BOOL_TRUE);
753         returnstatus = BOOL_TRUE;
754     }
755     return (returnstatus);
756 }

```



[illegible][illegible]



```

1011 2 textRect.Exc.Y = DAY_LABEL_HEIGHT;
1012 2 DRAW_Text ((WGET)REST_CalendarWindow->CalendarPanel,
1013 2 textRect,
1014 2 DRAW_ALIGN_CENTER,
1015 2 dayString);
1016 2 }
1017 2
1018 2 /* Determine the number of days and weeks in the displayed month */
1019 2 int daysInMonth = daysInMonth((displayedMonth, displayedYear));
1020 2 int numWeeks = GTIME_NumWeeks(&time, &dayOfWeekInTime, &midDay, numberDays);
1021 2
1022 2 /* Draw the vertical lines */
1023 2 for (x = 0; x < DAYS_PER_WEEK; x++)
1024 2 {
1025 2 startPoint.x = MARGIN_WIDTH + (x * dayWidth);
1026 2 startPoint.y = 0;
1027 2
1028 2 endPoint.x = startPoint.x;
1029 2 endPoint.y = DAY_LABEL_HEIGHT + (numWeeks * dayHeight);
1030 2
1031 2 DRAW_Line ((
1032 2 WGET)REST_CalendarWindow->CalendarPanel, startPoint, endPoint);
1033 2 }
1034 2
1035 2 /* Draw the horizontal lines */
1036 2 for (y = 0; y < numWeeks; y++)
1037 2 {
1038 2 startPoint.x = MARGIN_WIDTH;
1039 2 startPoint.y = DAY_LABEL_HEIGHT + (y * dayHeight);
1040 2
1041 2 endPoint.x = MARGIN_WIDTH + (dayWidth * DAYS_PER_WEEK);
1042 2 endPoint.y = startPoint.y;
1043 2
1044 2 DRAW_Line ((
1045 2 WGET)REST_CalendarWindow->CalendarPanel, startPoint, endPoint);
1046 2 }
1047 2
1048 2 /* Draw the date labels */
1049 2 dayNumber = displayMonthInTime, &midDay;
1050 2 textRect.ori.x = MARGIN_WIDTH + (dayNumber * dayWidth) + DAY_LABEL_OFFSET;
1051 2 textRect.ori.y = DAY_LABEL_HEIGHT + DAY_LABEL_OFFSET;
1052 2 for (x = 1; x <= numberDays; x++)
1053 2 {
1054 2 sprintf(dayString, "%d", x);
1055 2
1056 2 DRAW_Text ((WGET)REST_CalendarWindow->CalendarPanel,
1057 2 textRect,
1058 2 WGET)REST_CalendarWindow->CalendarPanel, FONT_Normal(1));
1059 2
1060 2 WGET)REST_CalendarWindow->CalendarPanel, dayString, &textRect);
1061 2
1062 2 WGET)REST_CalendarWindow->CalendarPanel,
1063 2 textRect.Exc.Y = textRect.Y;
1064 2
1065 2 DRAW_SetColors ((WGET)REST_CalendarWindow->CalendarPanel,
1066 2 COLOR.Transparent(1));
1067 2
1068 2 DRAW_SectPen ((WGET)REST_CalendarWindow->CalendarPanel, PEN_Solid(
1069 2 DRAW_ALIGN_CENTER,
1070 2 dayString);
1071 2
1072 2 /* Set up the next day */
1073 2 dayNumber++;
1074 2
1075 2 /* If we have hit the end of the week */
1076 2 if (dayNumber == DAYS_PER_WEEK)
1077 2
1078 2

```

```

1079 2 {
1080 2 /* Set the x coords back to the start */
1081 2 dayNumber = 0;
1082 2 textRect.ori.x = MARGIN_WIDTH + DAY_LABEL_OFFSET;
1083 2
1084 2 /* bump the y coord the height of a day */
1085 2 textRect.ori.y += dayHeight;
1086 2
1087 2 /* Just bump the x coords the width of a day */
1088 2 textRect.ori.x += dayWidth;
1089 2 }
1090 2
1091 2 /* Draw the selected day */
1092 2 WGET)REST_DrawSelectedDay (BOOL, TRUE);
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/*
 * RST_CalcsBoxSelected
 *
 * Description:
 *   This routine will select the day and time for the given combo
 *   currently selected time.
 *
 * Parameters:
 *   comb (I) - The combo box which was selected
 *
 * Returns:
 *   None.
 */
static void RST_CalcsBoxSelected (ComboBox)
{
    Int newId; /* This new selection id */

    /* Redraw cpo old selected day, unselected */
    RST_DrawSelectedDay (BOOL_FALSE);

    /* Get the new selected time */
    selectedDay = (Int) WGetDlgItemText (WGetPrtBox);
    selectedMonth = (Int) WGetDlgItemText (WGetPrtBox);
    selectedYear = (Int) WGetDlgItemText (WGetPrtBox);
    selectedTime = (Int) WGetDlgItemText (WGetPrtBox);

    /* Draw the newly selected day */
    RST_DrawSelectedDay (BOOL_TRUE);
}

```

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1354 5	else	1418 1	)
1355 6	/* Get the first date of the first backup time */	1419 1	/* Free the times array, we've done with it */
1356 7	WFS_GetFirstDate (WFSFirstBackupTimebox[monthday]);	1420 1	QFRL_Free (times);
1357 8	WFS_GetFirstDate (WFSFirstBackupTimebox[monthday]);	1421 1	/* Remove the selection by code flag */
1358 9	}	1422 1	selectioncode = BOOL_FALSE;
1359 10	/* NOTES:	1423 1	/* Restore the window for different number of weeks in this month */
1360 11	* The times are given to us in descending order.	1424 1	WFS_RestoreCalendarSize (1);
1361 12	* put them in the list such that the first is the earliest	1425 1	/* Invalidate the calendar to force a redraw */
1362 13	* and the last is the latest.	1426 1	WFS_InvalidateCalendarWindowCalendarPane, BOOL_TRUE);
1363 14	* If we go to the ID of the last one		
1364 15	* we got and do a CBOX_CurSelect it will put it before it		
1365 16	* that will reverse the order for us. The latest backup on		
1366 17	* backupTimesCount[date].		
1367 18	*/		
1368 19	/* Get to the end of the list */		
1369 20	if (backupTimesCount[monthday] > 0)		
1370 21	{		
1371 22	first = BOOL_FALSE;		
1372 23	CBOX_CurSelect (backupTimesbox[monthday],		
1373 24	backupTimesCount[monthday]);		
1374 25	else		
1375 26	{		
1376 27	first = BOOL_TRUE;		
1377 28	CBOX_CurSelect (backupTimesbox[monthday]);		
1378 29	}		
1379 30	/* Add this time to the element list */		
1380 31	CBOX_CurSelect (backupTimesbox[monthday], NULL);		
1381 32	/* Set the label for this element to the time string */		
1382 33	CBOX_CurSelectLabel (backupTimesbox[monthday], timeString);		
1383 34	/* Set the ID to the index into the backup times */		
1384 35	CBOX_CurSelectID (backupTimesbox[monthday],		
1385 36	backupTimesCount[monthday]);		
1386 37	/* If this is the current time of the first for that day,		
1387 38	if (timeString == currentSelectedTime)    first)		
1388 39	CBOX_CurSelect (backupTimesbox[monthday]);		
1389 40	/* Also select the day */		
1390 41	if (timeString == currentSelectedTime)		
1391 42	{		
1392 43	WFS_GetFirstDate (WFSFirstBackupTimebox[monthday]);		
1393 44	/* Update the time count for this day */		
1394 45	backupTimesCount[monthday]++;		
1395 46	}		
1396 47	} else		
1397 48	{		
1398 49	/* Nothing more to see here folks... Nothing more to see... */		
1399 50	cookies = DONE_COOKIE;		
1400 51	}		
1401 52	}		

```

1330 /*
1331  * @see CalendarCacheRecentTime
1332  */
1333 /**
1334  * This routine will determine the time of the most recent backup.
1335  *
1336  * @return
1337  *   None.
1338  * @throws
1339  *   None.
1340  */
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```

```

1494 1  /* Press the times array */
1495 1  OUTL_Press (times);
1496 1  }
1497 1  return (mostRecentTime);
1498 1  }

```





```

1604 5      GETME_GetMonthStr(tempMonth),
1605 6      1900 + tempYear);
1606 7
1607 8      /* Display the error message */
1608 9      GALENT_DisplayError (HANDLE)REST_CalendarWindow,
1609 10      GALENT_GetMonthStr (tempMonth, tempMonth_Index),
1610 11      outputString);
1611 12
1612 13      }
1613 14      default = BOOL_TRUE;
1614 15      }
1615 16      else if (status != E_SUCCESS)
1616 17      {
1617 18          printf (
1618 19              "Error returned from EBNST_GetMonthPreviousForTimeIn");
1619 20      }
1620 21      }
1621 22      }
1622 23      else
1623 24      {
1624 25          status = EBNST_GetMonthBackUpForTime (GREST_Handle,
1625 26          tempMonthTime,
1626 27          flags,
1627 28          &isThere);
1628 29      if ((status == E_SUCCESS) && !isThere)
1629 30      {
1630 31          STL_Printf (outputString,
1631 32          REST_GetErrorString (REST_NO_NEXT_FORMAT),
1632 33          GETME_GetMonthStr(tempMonth),
1633 34          1900 + tempYear);
1634 35      }
1635 36      /* Display the error message */
1636 37      GALENT_DisplayError (HANDLE)REST_CalendarWindow,
1637 38      GALENT_DisplayError (HANDLE)REST_GetMonthIndex,
1638 39      outputString);
1639 40
1640 41      default = BOOL_TRUE;
1641 42      }
1642 43      else if (status != E_SUCCESS)
1643 44      {
1644 45          printf (
1645 46              "Error returned from EBNST_GetMonthBackUpForTimeIn");
1646 47      }
1647 48      }
1648 49      }
1649 50      }
1650 51      }
1651 52      }
1652 53      }
1653 54      }
1654 55      }
1655 56      }
1656 57      }
1657 58      }
1658 59      }
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1661 62      }
1662 63      }
1663 64      }
1664 65      }
1665 66      }
1666 67      }
1667 68      }
1668 69      }
1669 70      }
1670 71      }
1671 72      }
1672 73      }
1673 74      }
1674 75      }
1675 76      }
1676 77      }
1677 78      }
1678 79      }
1679 80      }

```

```

1681 1      /*
1682 2      * REST_CalendarPreviousMonth
1683 3      * Description:
1684 4      * This routine will handle the callback to update the displayed
1685 5      * month to the previous month.
1686 6      * Parameters:
1687 7      * None.
1688 8      * Returns:
1689 9      * None.
1690 10     */
1691 11     void REST_CalendarPreviousMonth (void)
1692 12     {
1693 13         REST_CalendarUpdateDate (
1694 14             displayMonth - 1, displayYear, BOOL_TRUE);
1695 15     }
1696 16
1697 17
1698 18
1699 19

```

```

1303 /*****
1304 * RSTP_CalendarNextMonth
1305 */
1306 * Description:
1307 * This routine will handle the callback to update the displayed
1308 * month to the next month.
1309 * Parameters:
1310 * None.
1311 * Returns:
1312 * None.
1313 */
1314
1315 void RSTP_CalendarNextMonth (void)
1316 {
1317     RSTP_CalendarUpdateValue (
1318         displayedMonth + 1, displayedYear, BOOL_TRUE);
1319 }

```

```

1321 /*****
1322 * RSTP_CalendarPreviousYear
1323 */
1324 * Description:
1325 * This routine will handle the callback to update the displayed
1326 * Year to the previous Year.
1327 * Parameters:
1328 * None.
1329 * Returns:
1330 * None.
1331 */
1332 void RSTP_CalendarPreviousYear (void)
1333 {
1334     RSTP_CalendarUpdateValue (
1335         displayedMonth, displayedYear - 1, BOOL_FALSE);
1336 }

```

```

1741 .....
1742 * NEXT_CalendarNextYear .....
1743 *
1744 * Description:
1745 * This routine will handle the callback to update the displayed
1746 * year to the next year.
1747 * Parameters:
1748 * None.
1749 * Returns:
1750 * None.
1751 .....
1752 void NEXT_CalendarNextYear (void)
1753 {
1754     NEXT_CalendarUpdateData (
1755         displayMonth, displayYear + 1, BOOL_FALSE);
1756 }
1757
1758
1759

```

```

1761 .....
1762 * NEXT_CalendarToday .....
1763 *
1764 * Description:
1765 * This routine will handle the most recent button callback, it will
1766 * display the month with the most recent backup and will select the
1767 * most recent backup.
1768 * Parameters:
1769 * None.
1770 * Returns:
1771 * None.
1772 .....
1773 void NEXT_CalendarToday (void)
1774 {
1775     time_t mostRecentTime = 0; /* Time of most recent backup */
1776     int selectedMonth; /* Temporary storage */
1777     int selectedYear; /* Temporary storage */
1778     mostRecentTime = NEXT_CalendarGetMostRecentTime ();
1779     /* If there is a more recent time */
1780     if (mostRecentTime != 0)
1781     {
1782         /* Redraw the old selected day (has affect of unselecting) */
1783         NEXT_DrawSelectedDay (BOOL_FALSE);
1784         /* Get the selected time to the most recent backup */
1785         currentSelectedTime = mostRecentTime;
1786         /* Get the components of the time */
1787         CTIME BreakDownTime (currentSelectedTime,
1788             selectedMonth,
1789             selectedYear,
1790             selectedDay,
1791             selectedHour,
1792             selectedMinute);
1793         /* Display the most recent date */
1794         displayMonth = selectedMonth;
1795         displayYear = selectedYear;
1796         NEXT_UpdateDisplayData();
1797     }
1798     /* Draw the newly selected day */
1799     NEXT_DrawSelectedDay (BOOL_TRUE);
1800 }
1801
1802
1803

```

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```

1369 1 /* Get the current date */
1370 1 gtime.GetCurrentDate (&currentTime, &currentMonth, &currentYear);
1371 1 /* Flag that we have initialized the boxes */
1372 1 boxesInit = BOOL_TRUE;
1373 1
1374 1 /* If the called passed a time, use it */
1375 1 if (currentTime == 0)
1376 1 {
1377 1     currentTime = currentTime;
1378 1 }
1379 1 /* Otherwise, use the current backup time */
1380 1 else if (tMRST.GetCurrentBackupTime (&gREST_Handle,
1381 1     &currentSelectTime) !=
1382 1     E_SUCCESS)
1383 1 {
1384 1     return (0);
1385 1 }
1386 1
1387 1 /* Break down the time to get the current month and year to display */
1388 1
1389 1 gtime.BreakDownTime (currentSelectTime,
1390 1     &selectYear,
1391 1     &selectMonth,
1392 1     &selectDay,
1393 1     &selectHour,
1394 1     &selectMinute,
1395 1     &selectSecond);
1396 1 displayMonth = selectMonth;
1397 1 displayYear = selectYear;
1398 1
1399 1 /* Set the window title to the default setting */
1400 1 sprintf (tMRST.GetCurrentTitle (&gREST_Handle, currentTime);
1401 1     gURL_SocketDefaultWindowTitle (&winPRt_REST_CalendarWindow, name));
1402 1
1403 1 /* Display the current date */
1404 1 tMRST.UpdateDisplayDate (1);
1405 1
1406 1 /* Reset the resumed flag */
1407 1 REST_CalResumed = BOOL_FALSE;
1408 1
1409 1 /* Position the window and go on our merry way */
1410 1 OMN_ContentWindowInParent (&winPRt_REST_CalendarWindow);
1411 1 WIN_ModalProcess (&winPRt_REST_CalendarWindow);
1412 1
1413 1 /* Flush the events */
1414 1 event_PeekAndWait (1);
1415 1
1416 1 /* Flag that we are done, and terminate the window */
1417 1 tMRST_CalTerminated = BOOL_TRUE;
1418 1 WIN_Terminate (&winPRt_REST_CalendarWindow);
1419 1
1420 1 /* return the selected time */
1421 1 return (currentSelectTime);
1422 1

```





1	/* -- Template created by MINOR DATA Open Interface.	61	static BOOLenum RST_VerifySpace (RstHeaderIntr *in,
2	/* -- Do not alter 'CodeDir', 'directives'.	62	Str hostName,
3	/* ( ( CodeDir: GeneratorVersion 4 ) )	63	Str directory)
4	/* -- Code generated on 09/01/99 at 10:49:08.	64	{
5	/* ( ( CodeDir: Confidential ) )	65	static FaEntry *entries;
6	/*	66	int status;
7	/*	67	Char rstatus;
8	/*	68	Char availableStr[64];
9	/*	69	u_Layer restoreSize;
10	/*	70	u_Layer kSize;
11	/*	71	u_Layer availableSize;
12	/*	72	long restoreFiles;
13	/*	73	long bdfFiles;
14	/*	74	BOOLenum OKtoRestore = BOOL_TRUE;
15	/*	75	/* Validate the parameters */
16	/*	76	if ( ( restore == NULL ) && ( StrLen (hostName) > 0 ) &&
17	/*	77	if ( ( directory != NULL ) && ( StrLen (directory) > 0 ) )
18	/*	78	{
19	/*	79	{
20	/*	80	/* Get the file system info for the destination */
21	/*	81	if ( (type_get_definfo (hostName,
22	/*	82	directory,
23	/*	83	kentries,
24	/*	84	kstatus) == SVC_OK (SUCCESS)) &&
25	/*	85	(status == E_SUCCESS) &&
26	/*	86	(kentries != NULL)
27	/*	87	{
28	/*	88	/* Get the restore size in K */
29	/*	89	ENRST_GetRestoreSize (ENRST_Handle, &restoreSize);
30	/*	90	KSize = restoreSize;
31	/*	91	KSize = KSize / 1024;
32	/*	92	/* Get the space available (as a hyper) */
33	/*	93	if (entries->bytes_avail > 0)
34	/*	94	availableSize = 0; /* Co_Ln (unmapped long) 0);
35	/*	95	else
36	/*	96	availableSize = u_Ln_Co_Ln (unmapped long) 0);
37	/*	97	/* If the restore size is greater than the available space */
38	/*	98	if (u_Layer_greater_than (restoreSize, availableSize))
39	/*	99	{
40	/*	100	Char outputString[1024];
41	/*	101	/* String to display */
42	/*	102	/*
43	/*	103	/*
44	/*	104	/*
45	/*	105	/*
46	/*	106	/*
47	/*	107	/*
48	/*	108	/*
49	/*	109	/*
50	/*	110	/*
51	/*	111	/*
52	/*	112	/*
53	/*	113	/*
54	/*	114	/*
55	/*	115	/*
56	/*	116	/*
57	/*	117	/*
58	/*	118	/*
59	/*	119	/*
60	/*	120	/*



222	/* (( CodeGen: MyGuiHandler EtlSelectedHostBox	222	/* Make sure we have something */
223	static void C_PAR RestDestWin_EtlSelectedHostBox 121	223	if (tmpInfo != NULL)
224	RestDestWinPnt, win, CheckHostSelectedType, Info)	224	{
225	/* (( CodeGen: MyGuiHandler EtlSelectedHostBox	225	if ( STR_Cpy (hostname, tmpInfo->name) :
226	/* (( CodeGen: MyGuiHandler EtlSelectedHostBox	226	1
227	/* (( CodeGen: MyGuiHandler EtlSelectedHostBox	227	2
228	/* (( CodeGen: MyGuiHandler EtlSelectedHostBox	228	3
229	static void C_PAR RestDestWin_ValidatedDirectory 11	229	else
230	RestDestWinPnt, win)	230	{
231	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	231	STR_Cpy (hostname, **))
232	RestDestWinPnt, win)	232	2
233	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	233	3
234	RestDestWinPnt, win)	234	4
235	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	235	5
236	RestDestWinPnt, win)	236	6
237	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	237	7
238	RestDestWinPnt, win)	238	8
239	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	239	9
240	RestDestWinPnt, win)	240	10
241	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	241	11
242	RestDestWinPnt, win)	242	12
243	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	243	13
244	RestDestWinPnt, win)	244	14
245	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	245	15
246	RestDestWinPnt, win)	246	16
247	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	247	17
248	RestDestWinPnt, win)	248	18
249	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	249	19
250	RestDestWinPnt, win)	250	20
251	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	251	21
252	RestDestWinPnt, win)	252	22
253	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	253	23
254	RestDestWinPnt, win)	254	24
255	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	255	25
256	RestDestWinPnt, win)	256	26
257	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	257	27
258	RestDestWinPnt, win)	258	28
259	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	259	29
260	RestDestWinPnt, win)	260	30
261	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	261	31
262	RestDestWinPnt, win)	262	32
263	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	263	33
264	RestDestWinPnt, win)	264	34
265	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	265	35
266	RestDestWinPnt, win)	266	36
267	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	267	37
268	RestDestWinPnt, win)	268	38
269	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	269	39
270	RestDestWinPnt, win)	270	40
271	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	271	41
272	RestDestWinPnt, win)	272	42
273	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	273	43
274	RestDestWinPnt, win)	274	44
275	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	275	45
276	RestDestWinPnt, win)	276	46
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278	RestDestWinPnt, win)	278	48
279	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	279	49
280	RestDestWinPnt, win)	280	50
281	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	281	51
282	RestDestWinPnt, win)	282	52
283	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	283	53
284	RestDestWinPnt, win)	284	54
285	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	285	55
286	RestDestWinPnt, win)	286	56
287	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	287	57
288	RestDestWinPnt, win)	288	58
289	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	289	59
290	RestDestWinPnt, win)	290	60
291	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	291	61
292	RestDestWinPnt, win)	292	62
293	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	293	63
294	RestDestWinPnt, win)	294	64
295	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	295	65
296	RestDestWinPnt, win)	296	66
297	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	297	67
298	RestDestWinPnt, win)	298	68
299	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	299	69
300	RestDestWinPnt, win)	300	70
301	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	301	71
302	RestDestWinPnt, win)	302	72
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304	RestDestWinPnt, win)	304	74
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306	RestDestWinPnt, win)	306	76
307	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	307	77
308	RestDestWinPnt, win)	308	78
309	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	309	79
310	RestDestWinPnt, win)	310	80
311	/* (( CodeGen: MyGuiHandler ValidatedDirectory 11	311	81
312	RestDestWinPnt, win)	312	82
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[illegible]

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484 2         if (transport.GetSelected() != TransportWinAlwaysButtons) }
485 2             "Policy = Always.Overwrite",
486 2             else if (transport.GetSelected() != TransportWin-SolderButton) }
487 2                 "Policy = Older-Only.Overwrite",
488 2                 "Policy = Newer.Overwrite",
489 2
490 2         // Get the transport mechanism V
491 2         if (transport.GetSelected() != TransportWin-NetoworkButton) }
492 2             "Transport = TransportNetwork",
493 2             else
494 2                 "Transport = TransportSCSI",
495 2
496 2         }
497 2
498 1     WIN_Terminate(WinServerWin);
499 1
500 1     EXISTING_ProcessPending ();
501 1
502 1     return (retVal);
503 1

```



```

1 /*
2 * restoreEmkr.c
3 *
4 *
5 * Copyright 1999 by EMC Corp.
6 *
7 *
8 * Mission Statement:
9 *   Restore the callback functions necessary for the
10 *   EMK Restore Destination options window.
11 *
12 * Required Includes:
13 *   None
14 *
15 * Compile-time Options:
16 *   N/A
17 *
18 * RCS Information:
19 *   $RCSFILE$
20 *   $Revision$
21 *   $Date$
22 */
23
24 #define EMK_LIB RESTORE
25
26 /* Back with the following defines to allow use of purevc which is
27    portable */
28
29 #define _XOPEN_SOURCE
30
31 #include <stdio.h>
32 #include <fcntl.h>
33 #include <errno.h>
34 #include <unistd.h>
35 #include <sys/types.h>
36 #include <iolib.h>
37 #include <libgen.h>
38 #include <string.h>
39 #include <sys/stat.h>
40 #include <sys/mman.h>
41 #include <sys/time.h>
42 #include <sys/wait.h>
43 #include "restore.h"
44 #include "restore_api.h"
45 #include "restorec.h"
46 #include "restoref.h"
47 #include "restoreset.h"
48 #include "restoreutil.h"
49 #include "restoreutil.h"
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100 #include "restoreutil.h"

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```

65  //*****
66  * Constants *
67  *****/
68
69  //*****
70  * Local Global Variables *
71  *****/
72
73  //*****
74  * RST UpdateLocalPath
75  *****/
76
77  Description:
78  This function will update the data path visibility base on what is
79  allowed for the current work item.
80
81  Parameters:
82  None
83
84  Returns:
85  None.
86
87  *****/
88
89  void RST_UpdateLocalPath (RstDataWinT win)
90 {
91     Boolean isSymackProbe;
92     Boolean isNetwoKOK=TRUE;
93     CString strStatus;
94
95     // Based on the current WI determine if SC restore is OK */
96     if (currentWorkItemInfo != NULL) &&
97         (currentWorkItemInfo->restoreObject != NULL)
98     {
99         // Make sure the current work item is restorable over SymConnect */
100         if (intatus = ERMST_GetSymConnectOption (GREST_Handle,
101             currentWorkItemInfo->restoreObject,
102             isSymackOK) != E_SUCCESS)
103         {
104             RST_DisplayErrorMessage (WINPCTWin, NULL, NULL, strStatus);
105             isSymackOK = BOOL_FALSE;
106         }
107     }
108     // on error, allow SC restore */
109     if (strStatus = ERMST_GetNetworkRstRestoreOption (GREST_Handle,
110         currentWorkItemInfo->restoreObject,
111         isNetwoKOK) != E_SUCCESS)
112     {
113         RST_DisplayErrorMessage (WINPCTWin, NULL, NULL, strStatus);
114     }
115     // on error, allow network restore */
116     isNetwoKOK = BOOL_TRUE;
117 }
118
119 // Allow SC and Network to be visible
120 // they will be updated more accurately later
121

```

127	4	/*
128	2	isSymLink = BOOL_TRUE;
129	2	isNetworkOK = BOOL_TRUE;
130	2	}
131	1	}
132	1	if (!labelNetworkOK)
133	1	{
134	2	/* Not OK to use network, so select the Symconnect button */
135	2	TRUL_Select (TRULCwin->SymconnectButton);
136	2	}
137	1	}
138	1	if (!isSymLink)
139	2	{
140	2	/* Not OK to use sym connect, so select the network button */
141	2	TRUL_Select (TRULCwin->NetworkButton);
142	1	}
143	1	}
144	1	/* Set the visibility of the sym connect button */
145	1	GUICwin->SetVisibility (WgetCwin->SymconnectButton, isSymLink);
146	1	GUICwin->SetVisibility (WgetCwin->NetworkButton, isNetworkOK);
147	1	/* Set the visibility of the network button */
148	1	GUICwin->SetVisibility (WgetCwin->NetworkButton, isNetworkOK);
149	1	/* Update the destination sensitivity */
150	1	REST_UpdateDestinationSensitivity (win);
151	1	/*.....
152	1	/*.....
153	1	/*.....
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250	1	/*.....

189	2	if (currentWorkItemInfo != NULL)
190	2	tmpInfo = currentWorkItemInfo;
191	2	else
192	2	tmpInfo = NULL;
193	2	/* Find the client for this restored */
194	2	while ((tmpInfo != NULL) && (tmpInfo->type != REST_Client))
195	2	{
196	2	tmpInfo = tmpInfo->parent;
197	2	}
198	2	/* If we found the client get its name */
199	2	if (tmpInfo != NULL)
200	2	{
201	2	STR_Copy (destHostName, tmpInfo->name);
202	2	}
203	2	/* Didn't find it, use the current host */
204	2	STR_Copy (destHostName, GUICwin->HostText());
205	2	}
206	2	return (destHostName);
207	2	}
208	2	/*.....
209	2	/*.....
210	2	/*.....
211	2	/*.....
212	2	/*.....
213	2	/*.....
214	2	/*.....
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249	2	/*.....
250	2	/*.....



```

252 2 // Get the Platform type for the host */
253 2 if ((BEST_Handle,
254 2     destName,
255 2     platformType) ==
256 2     E_SUCCESS)
257 2 {
258 2     /* Can only browse UNIX or NT clients */
259 2     if ((platformType == BROWSE_PLATFORM_UNIX) ||
260 2         (platformType == BROWSE_PLATFORM_NT))
261 2     {
262 2         sensitive = BOOL_TRUE;
263 2     }
264 2     /* All others, don't allow browsing */
265 2     else
266 2     {
267 2         sensitive = BOOL_FALSE;
268 2     }
269 2     /* Enable to get platform type */
270 2     else
271 2     {
272 2         REST_DisplayErrorMessage (WinfWin, NULL, STATUS);
273 2     }
274 2
275 2     /* Assume we can browse, browser will tell us later if we can't */
276 2     sensitive = BOOL_TRUE;
277 2
278 2     }
279 2
280 2     /* This is an inplace restore, no browsing necessary */
281 2     else
282 2     {
283 2         sensitive = BOOL_FALSE;
284 2     }
285 2
286 2     GetFileWin_SetEnabled (WinfWin->BrowseAction, sensitive);
287 2
288 2 }
289 2
290 2 // REST_UpdateDestinationSensitivity
291 2 .....
292 2
293 2 // Description:
294 2 // This routine set the sensitivity of the user chosen destination
295 2 // to the appropriate value, i.e., sensitive or not, then disable the
296 2 // destination options, otherwise enable them.
297 2
298 2 // Parameters:
299 2 // None.
300 2 // Returns:
301 2 // None.
302 2
303 2 void REST_UpdateDestinationSensitivity (RestDestWin* win)
304 2 {
305 2     BOOL from_labelActionSelectable; /* Is the destination selectable */
306 2
307 2     /* If there is a restore in progress, don't update anything */
308 2     if (REST_RestoreInProgress ())
309 2     {
310 2         return;
311 2     }
312 2     /* Check if the user is using in place or not */
313 2     if (labelActionSelectable == !BROWSE_GetSelected())
314 2     {
315 2         WinFileWin->InplaceAction();
316 2     }
317 2
318 2     WinFileWin->
319 2
320 2 }

```

```

315 1  /* Enable or disable the widget appropriately */
316 1  GUTTL_WGT_SetEnabled (WGETPRWin->HostRect);
317 1  GUTTL_WGT_SetEnabled (WGETPRWin->HostBack);
318 1  GUTTL_WGT_SetEnabled (WGETPRWin->HostArea);
319 1  tabDestinctionIsDetectable);
320 1
321 1  /* If doing a cross restore,
322 1  { (return GetSelected (TBUDEPRWin->NetworkButton))
323 1  {
324 1  GUTTL_WGT_SetEnabled (WGETPRWin->DirectoryTree);
325 1  GUTTL_WGT_SetEnabled (WGETPRWin->DirectoryTree);
326 1  IsDestinctionIsDetectable);
327 1  }
328 1  }
329 1  /* For Network restores, allow overwrite policy */
330 1  if (!WGT_IsEnabled (WGETPRWin->OLMenuButton))
331 1  {
332 1  TBU Select (TBUDEPRWin->NewMenuButton);
333 1  GUTTL_WGT_SetEnabled (WGETPRWin->OLMenuButton);
334 1  GUTTL_WGT_SetEnabled (WGETPRWin->NewMenuButton);
335 1  }
336 1  }
337 1  else
338 1  {
339 1  GUTTL_WGT_SetEnabled (WGETPRWin->DirectoryTree);
340 1  GUTTL_WGT_SetEnabled (WGETPRWin->DirectoryTree);
341 1  }
342 1  /* For GC restores, do NOT allow overwrite policy */
343 1  if (!WGT_IsEnabled (WGETPRWin->OLMenuButton))
344 1  {
345 1  WGT_Select (TBUDEPRWin->NewMenuButton);
346 1  GUTTL_WGT_SetEnabled (WGETPRWin->OLMenuButton);
347 1  GUTTL_WGT_SetEnabled (WGETPRWin->NewMenuButton);
348 1  }
349 1  }
350 1  }
351 1  /* Check if browsing should be enabled */
352 1  REST_UpdateBrowseDestinctionSensitivity (win);
353 1
354 1  //
355 1  * REST_UpdateCacheOnHosts
356 1  *
357 1  * This routine will update the restore destination box to the
358 1  * choice available.
359 1  *
360 1  * Parameters:
361 1  *   Info (T) - Child info record
362 1  * Returns:
363 1  *   None.
364 1  *
365 1  *
366 1  *
367 1  *
368 1  *
369 1  *
370 1  *
371 1  void C_FAR REST_UpdateCacheOnHosts (RestoreWin* win)
372 1  {
373 1  RestoreInfo* info;
374 1  char
375 1  long
376 1  cookie = INT_COOKIE;
377 1  numEntries;
378 1  res;
379 1  }
380 1  short
381 1  numEntries;
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[illegible]

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```

501      * MONO
502      *
503      ...../
504
505      void REST_DealDisplayHelp (ReatDealWin* win)
506      {
507          EMHELP_Display ((WinPtr)win, REST_MODAL, REST_DESTINATION_OPTIONS);
508      }

```





```

137  /*****
138  * RSST_IsReReadInProgress
139  *
140  * Description:
141  * This routine will determine if a re-read of a work-item is
142  * currently
143  * in progress.
144  * Parameters:
145  * None.
146  * Returns:
147  * RSST_TRUE - If there is a re-read in progress.
148  * RSST_FALSE - otherwise
149  *
150  *****/
151  Bool RSST_IsReReadInProgress (void)
152  {
153  }
154  return (reReadInProgress);
155  }
156  }

```

```

148  /*****
149  * RSST_SetReReadInProgress
150  *
151  * Description:
152  * This routine will set the re-read in progress status to the given
153  * status.
154  * Parameters:
155  * status (t) - flag if there is a re-read in progress
156  * Returns:
157  * None.
158  *
159  *****/
160  void RSST_SetReReadInProgress (BoolEnum status)
161  {
162  reReadInProgress = status;
163  }
164  }

```









```

430  *
431  * REST_ShowObject
432  *
433  * Description:
434  * This routine will display the given object in the file manager
435  * and select it.
436  *
437  * Parameters:
438  * Object {i} - The object to display.
439  *
440  * Returns:
441  * None.
442  *
443  * ..*
444  * ..*
445  * ..*
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nestFlemGr.c.11

Fri Jan 04 14:31:46 2008

```

492 /
493 REST_SerializeView
494
495 Description:
496 • This routine will display the object with the given full name
497 at the given backup time.
498
499 Parameters:
500 • backupTime (I) - The time for the backup to display
501 • itemFullName (I) - The full name of the object to display
502
503 Returns:
504 • None.
505
506
507
508 void REST_SerializeView (int_t backupTime,
509 itemFullName)
510 /

```

[illegible]

```

553 1      /* Display the error message */
554 2      REST_DisplayErrorMessage (WMPFt.REST_RestoreMin,
555 3                          NULL,
556 4                          outputString,
557 5                          errorInfo);
558 6
559 7      /* We're done here */
560 8      return;
561 9  }
562 10
563 11      /* Try to find the object in the current work item */
564 12      info = REST_FindInfoInCurrentWorkItem(
565 13          itemFullName, currentWorkItemInfo, BOOL_TRUE);
566 14
567 15      /* If we found it */
568 16      if (info != NULL)
569 17      {
570 18          /* If this is a file object,
571 19             select its parent to show object in LBOX */
572 20          if ((info->type == REST_File) && (info->parent != NULL))
573 21          {
574 22              selectedObject = info->parent;
575 23          }
576 24          /* Else select this object */
577 25          else
578 26          {
579 27              selectedObject = info;
580 28          }
581 29
582 30          /* Show the object in the file manager if not already selected */
583 31          if (!OPFMR_IsObjectSelected (fileObjContext, (
584 32              OPFMR_Object)selectedObject))
585 33          {
586 34              OPFMR_PressedDisplay (fileObjContext);
587 35              REST_ShowObject (selectedObject);
588 36              OPFMR_Display (fileObjContext);
589 37          }
590 38          /* Update the current backup options to the new selected object */
591 39          REST_UpdateBackupOptions (info);
592 40      }
593 41
594 42      /* If the object is not a parent, select it in the list box */
595 43      if (selectedObject != info)
596 44      {
597 45          OPFMR_SelectObjectInListBox (fileObjContext, info, BOOL_TRUE);
598 46      }
599 47      else
600 48      {
601 49          outputString(4 * GPOK_OBJECT_LENGTH);
602 50          /* Error string to show */
603 51          STR_Sprintf (outputString,
604 52                      "REST_Srv_VIWM_ERROR",
605 53                      itemFullName);
606 54      }
607 55
608 56      /* Display the error message */
609 57      GMPFt.DisplayError (WMPFt.REST_RestoreMin,
610 58                          "REST_Srv_VIWM_Error",
611 59                          GPOK_GetError(),
612 60                          outputString);
613 61  }

```

```

615 // REST_SoftWorkToRich
616
617
618 // Description:
619 // This routine will display the object with the full name currently
620 // in the path widget in the current backup time.
621
622 // Parameters:
623 // None.
624
625 // Returns:
626 // None.
627
628
629
630 void REST_GetWorkToRich (void)
631 {
632     Set itemFullname;
633
634     // The full path to set the view to */
635     Boolean lastCharFound = BOOL_FALSE;
636
637     // Flag if we verified last char */
638     Int lastChar;
639
640     // Current position of last char */
641     // Get the current path */
642     itemFullname = get_string ((STRPTR)GetStr((
643         TEXT(REST_RestoreWin>PathText));
644
645     // Get rid of trailing spaces and directory markers */
646     REST_GetWorkToRichChar (itemFullname);
647
648     // Set the backup view to this item at the current time */
649     REST_SetBackupView (0, itemFullname);
650
651     // We're done with the name so free it */
652     CURRL_free (itemFullname);
653 }

```

```

649 // REST_GetChildren
650
651 // Description:
652 // This routine will return the children of the parent object via
653 // the Addressid routine.
654
655 // Parameters:
656 // (1) - The param to get the children for.
657 // Isolated (1) - Flag whether or not the object is selected
658
659 // Returns:
660 // None.
661
662
663
664 void REST_GetChildren (CPROR Context Flag,
665     CPROR Object Isolated)
666 {
667     RestoreInfo* info;
668
669     // The info for the given parent */
670     RestoreInfo* tmpObject;
671
672     // Pointer to walk the children with */
673     RestoreInfo* originalMI;
674
675     // Save pointer to original work item */
676     Boolean found = BOOL_FALSE;
677
678     // Flag whether or not we found it */
679     Boolean newMI = BOOL_FALSE;
680
681     // Number of children added */
682     Int count = 0;
683
684     // Connect to the real data type */
685     info = (RestoreInfo*)parent;
686
687     // If the info is NULL or it is a file, no children to add */
688     if ((info == NULL) || (info->type == REST_File))
689         return;
690
691     // If this object is currently selected
692     // see if the work-item has changed */
693     if ((IsSelected) &&
694         (REST_GetBackupProgress()) &&
695         (currentWorkItemInfo != NULL)) &&
696         (info->type != REST_Client))
697     {
698         // Keep a pointer to the original work item */
699         originalMI = currentWorkItemInfo;
700
701         // Find work-item for parent object */
702         tmpObject = info;
703         while ((!found) && (tmpObject != NULL))
704         {
705             // Is this object the work-item */
706             if ((tmpObject->type == REST_WorkItem)
707                 // If this is not the current work-item, make it so */
708                 // if (currentWorkItemInfo != tmpObject)
709                 {
710                     currentWorkItemInfo = tmpObject;
711                     newMI = BOOL_TRUE;
712                 }
713             found = BOOL_TRUE;
714         }
715     }

```

```

708 1         else
709 2             {
710 3                 /* Go to the parent of this object */
711 4                 tmpObject = tmpObject->parent;
712 5             }
713 6         }
714 7     }
715 8     /* If this is a different work-item, re-read the work-item data */
716 9     if (! (fromIt) && (allowGetChildren))
717 10     {
718 11         REST_GetWorkItem (currentWorkItemInfo);
719 12     }
720 13     /* Clear the mark flags for all objects */
721 14     REST_ClearObjectMarks (originalInt);
722 15     }
723 16     else
724 17     {
725 18         /* Create the children if need be, and this is selected */
726 19         if (! (info->children == NULL) && (allowGetChildren))
727 20         {
728 21             REST_CreateInfoChildren (info);
729 22         }
730 23         /* Add the children to the file manager */
731 24         tmpObject = info->children;
732 25         while (tmpObject != NULL)
733 26         {
734 27             /*
735 28              * Check if this object should be shown in the file manager
736 29              * Verify hidden file
737 30              * Verify deleted file
738 31              * Verify bad file
739 32              */
740 33             if (! (REST_ShouldDisplayIt || (tmpObject->name[0] != '\0') &&
741 34                 {
742 35                 (REST_ShouldDisplay || ! REST_IsBadObject (tmpObject)))
743 36                 {
744 37                     count++;
745 38                     gfmgr.AddChild (fileMgrContext, parent, {
746 39                         tmpObject = tmpObject->next;
747 40                     }
748 41                 )
749 42             }
750 43             /* If this is a workItem, update the backup options */
751 44             if ((info->vtype == REST_WorkItem) &&
752 45                 (allowGetChildren) &&
753 46                 (info->children != NULL))
754 47             {
755 48                 /* See the workItem options to visible */
756 49                 REST_UpdateAvailability (pool, TRUE);
757 50                 REST_SetAvailability (pool, TRUE);
758 51             }
759 52             /* Update the partial backup backup availability */
760 53             REST_UpdatePartialBackup ();
761 54             /* Update the workItem data without */
762 55             REST_UpdateBackupTemplates (info);
763 56         }
764 57     }
765 58 }
766 59
767 60
768 61
769 62
770 63
771 64

```

```

773 .....
774 * REST_CloacChildren .....
775 .....
776 * Description: .....
777 *   This routine is provided for the file manager to call when an
778 *   object is closed. It does nothing.
779 .....
780 * Parameters: (I) - The parent to close.
781 *   Parent:
782 *   Returns:
783 *   None.
784 .....
785 .....
786 .....
787 .....
788 .....
789 void REST_CloacChildren (USER_CONTEXT INPR, GPMGR_OBJECT Parent)
790 {
791     /* For Speed,
792     don't destroy anything until the user closes the window */
793     return;
794 }

```

```

796 .....
797 * REST_FindHostInArray .....
798 .....
799 * Description: .....
800 *   This routine will determine if a given host is in an array of
801 *   hosts.
802 .....
803 * Parameters:
804 *   hostName (I) - name of the host to look for
805 *   sourceHosts (I) - array of hosts to search
806 .....
807 * Returns:
808 *   BOOL_TRUE - if the host is found in the array
809 *   BOOL_FALSE - otherwise
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```

948 1 RestoreHostClientFromMem(); // Next bit to find from given list */
949 1 RestoreInfoOfr WinInfo; // The work item that was found */
950 1 RestoreInfoOfr clientInfo; // Next client info in the list */
951 1 if (!IsValidated)
952 1 {
953 1     IsValidated = BOOL_TRUE;
954 1
955 1     // Get the number of restorable hosts
956 1     //
957 1     // Allocate space for the temporary hosts */
958 1     for (index=0; index < HOSTS_BUFFER_LENGTH; index++)
959 1     {
960 1         tempHosts[index] = (char *) clientName; // MAX_CLIENT_NAME_LENGTH * sizeof(char));
961 1     }
962 1
963 1     // Get the source hosts and count them */
964 1     while (cookie != DONE_COOKIE)
965 1     {
966 1         if (errno == ECONNREFUSED)
967 1         {
968 1             // Get an error, ignore it and get out */
969 1             cookie = DONE_COOKIE;
970 1         }
971 1         else
972 1         {
973 1             // Add this count to the host count */
974 1             hostCount += numClients;
975 1         }
976 1     }
977 1
978 1     // We're done with the temporary hosts, free 'em up */
979 1     for (index=0; index < HOSTS_BUFFER_LENGTH; index++)
980 1     {
981 1         free(tempHosts[index]);
982 1     }
983 1     // Now, really get the restorable hosts */
984 1     if (hostCount > 0)
985 1     {
986 1         // Allocate enough space for the restorable hosts */
987 1         sourceHosts = (char **) calloc(hostCount * 1, sizeof(char));
988 1         for (index=0; index < hostCount; index++)
989 1         {
990 1             sourceHosts[index] = (char *) calloc(MAX_CLIENT_NAME_LENGTH * sizeof(char));
991 1         }
992 1
993 1         // Set the last one to NULL */
994 1         sourceHosts[sourceHosts + hostCount] = NULL;
995 1
996 1         // Get the hosts */
997 1         //
998 1         // need to loop, we know how many there are */
999 1         cookie = INT_COOKIE;
1000 1         while (cookie != DONE_COOKIE)
1001 1         {
1002 1             // Loop through all the source hosts */
1003 1             for (index = 0; index < hostCount; index++)
1004 1             {
1005 1                 //
1006 1                 //

```

```

1007 3     numClients,
1008 3     &cookie);
1009 3
1010 3 // Set the last client */
1011 3 lastClient = *clientInfo;
1012 3 // If no clients are currently selected, show all */
1013 3 if (!clientInfo)
1014 3 {
1015 3     // Loop through the current hosts,
1016 3     // and add only the backup clients */
1017 3     while (clientInfo != NULL)
1018 3     {
1019 3         // Save a pointer to the next client */
1020 3         nextClient = clientInfo->next;
1021 3         // Check if this is a backup client */
1022 3         if (REST_FinHostArray (
1023 3             clientInfo->clientName, sourceHosts) !=
1024 3             REST_ValidatedClient (clientInfo->clientName))
1025 3         {
1026 3             // Add this client info and add it to the list */
1027 3             clientInfo->next = clientInfo->next;
1028 3             REST_AddClientInfo (clientInfo->clientName);
1029 3             clientInfo = nextClient;
1030 3         }
1031 3         else
1032 3         {
1033 3             // Add this client info and add it to the list */
1034 3             clientInfo->next = clientInfo->next;
1035 3             REST_AddClientInfo (clientInfo->clientName);
1036 3             clientInfo = nextClient;
1037 3         }
1038 3     }
1039 3
1040 3 // Free this client */
1041 3 free(clientInfo);
1042 3 // Flag if the client was invalid */
1043 3 if (REST_FinHostArray (
1044 3     clientInfo->clientName, sourceHosts) !=
1045 3     REST_ValidatedClient (clientInfo->clientName))
1046 3 {
1047 3     // Invalid client = BOOL_TRUE;
1048 3 }
1049 3
1050 3 // Go to the next host */
1051 3 clientInfo = nextClient;
1052 3 }
1053 3
1054 3 // If no clients were selected or none selected are restorable
1055 3 // Use show all available hosts (better than none)
1056 3 //
1057 3 if (topInfo == NULL)
1058 3 {
1059 3     // Loop through all the source hosts */
1060 3     for (index = 0; index < hostCount; index++)
1061 3     {
1062 3         //
1063 3         //

```



```

1069 5 //
1070 6     if (REST_ValidClient(sourcehost:index))
1071 7         if (
1072 8             // Create the new client info and add it to the list */
1073 9             info = REST_CreateClientInfo(sourcehost:index));
1074 10         REST_AddClientInfo (ecopinfo, info);
1075 11         // Create the new client */
1076 12         nextClient = (RESTClient) GUTL_Malloc (sizeof(
1077 13             RESTClient));
1078 14         nextClient->name = NULL;
1079 15         // Update the client list */
1080 16         if (lastClient != NULL)
1081 17             lastClient->next = nextClient;
1082 18         else
1083 19             firstClient = nextClient;
1084 20         // ClientList = nextClient;
1085 21         lastClient = nextClient;
1086 22         // ClientList = nextClient;
1087 23         lastClient = nextClient;
1088 24         }
1089 25     }
1090 26     else
1091 27     {
1092 28         // Free up the hosts and the data */
1093 29         for (index=0; index < hostcount; index++)
1094 30             GUTL_Free (sourcehost:index);
1095 31         GUTL_Free (sourcehost);
1096 32         }
1097 33     }
1098 34     // Loop through the current hosts we know they are all valid */
1099 35     while (firstClient != NULL)
1100 36     {
1101 37         // Create the new client info and add it to the list */
1102 38         REST_AddClientInfo (ecopinfo, info);
1103 39         // Go to the next host */
1104 40         clientInfo = firstClient->next;
1105 41         firstClient = firstClient->next;
1106 42     }
1107 43     // If there are still no clients rescreable */
1108 44     if (ecopinfo == NULL)
1109 45     {
1110 46         // If there were only invalid clients,
1111 47         // display the no data error */
1112 48         if (firstClient != NULL)
1113 49             GALLERY_DisplayError (WALDER_REST_Rescreable,
1114 50                 REST_GetErrorString (REST_ERROR_INDEX),
1115 51                 GUTL_GetError(1),
1116 52                 REST_GetErrorString (
1117 53                     REST_NO_RESOURCE_DATA_ERROR));
1118 54     }
1119 55     // Also, display the permission denied error */
1120 56     restPermMsg25

```

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```

1132 2     else
1133 3     {
1134 4         GALLERY_DisplayError (WINIFY_REST_Rescreable,
1135 5             REST_GetErrorString (REST_ERROR_INDEX),
1136 6             GUTL_GetError(1),
1137 7             REST_GetErrorString (
1138 8                 REST_PERMISSION_ERROR));
1139 9         GUTL_Shutdown ();
1140 10     }
1141 11     // Add all the clients to the File Manager */
1142 12     tempInfo = tempInfo;
1143 13     while (tempInfo != NULL)
1144 14     {
1145 15         GPMGR_AddChild (fileMgrContext, NULL, (GPMGR_Object)tempInfo);
1146 16         tempInfo = tempInfo->next;
1147 17     }
1148 18     // If any workitems were passed in, find and select them */
1149 19     if (winfo != NULL)
1150 20     {
1151 21         // NOTE:
1152 22         // This should loop through all selected work items when we are
1153 23         // able to multi-select work items.
1154 24         //
1155 25         nextItem = winfo;
1156 26         while (
1157 27             clientInfo != tempInfo;
1158 28             while (winfo != (clientInfo != NULL))
1159 29             {
1160 30                 REST_CreateInfoItem (clientInfo);
1161 31                 winfo = REST_FindInfoItem (
1162 32                     nextItem->winfo, clientInfo, BOOL_TRUE);
1163 33                 if (winfo != NULL)
1164 34                     winfo = winfo->winfo;
1165 35             }
1166 36         // Play that we found the work item */
1167 37         winfo = BOOL_TRUE;
1168 38     }
1169 39     // Show the workitem for this client in the file manager */
1170 40     GPMGR_OpenObject (fileMgrContext, (GPMGR_Object)clientInfo);
1171 41     else
1172 42     {
1173 43         // Go on to the next client */
1174 44         clientInfo = clientInfo->next;
1175 45     }
1176 46     }
1177 47     // Select the first host, unless a work item was selected */
1178 48     if (winfo)
1179 49     {
1180 50         GPMGR_SelectObject (fileMgrContext, tempInfo, BOOL_TRUE);
1181 51         REST_UpdateWorkOptions (NULL);
1182 52     }
1183 53     else
1184 54     {
1185 55         // Select the work item in the file manager */
1186 56         GPMGR_SelectObject (fileMgrContext,
1187 57             GPMGR_SelectObject (fileMgrContext,
1188 58                 GPMGR_Object)winfo, BOOL_TRUE);
1189 59         REST_UpdateWorkOptions (winfo);
1190 60     }
1191 61     }
1192 62     }
1193 63     }
1194 64     }

```

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```

1186 .....
1187 * REST_VerifySelection .....
1188
1189 * Description: is provided for the file manager. It determines
1190 * if the user is OK to select the given object. We must verify with
1191 * the user before switching WIS if anything is marked or
1192 * If the search window is displayed (
1193 * of our workItem at a time). due to the restore API limitation
1194
1195 * Parameters:
1196 * selectedObject (I) - object to verify selection for
1197 * selectedItem (I) - flag is this is a multi select
1198 * Returns:
1199 * BOOL_TRUE - If it is OK to select the object
1200 * BOOL_FALSE - otherwise
1201
1202 .....
1203
1204 * RestoreInfo: (GENERAL Context (I)G,
1205 * ofRM.Object, selectedObject,
1206 * selectedItem,
1207 * selectedItem,
1208 * selectedItem)
1209
1210 {
1211     RestoreInfo: info; // Real representation of the object
1212
1213     RestoreInfo: tempObject; // pointer to walk the list with
1214
1215     RestoreInfo: newObject = NULL; // Work item for the selected object
1216
1217     BOOL_TRUE; // Flag if we found it
1218
1219     Char
1220     outpustString(BK_STRING_LENGTH); // Error string
1221
1222     BOOL_TRUE; // Should search be removed
1223
1224     returnStatus = BOOL_TRUE; // Status to return
1225
1226     if (REST_SearchWindowDisplayed() &&
1227         ! (REST_RestoreInProgress() || REST_SearchInProgress()))
1228     {
1229         return (BOOL_FALSE);
1230     }
1231
1232     // Get the object in the real data type
1233     info = (RestoreInfoPT)selectedObject;
1234
1235     // Go to the top of the selected box.
1236     // check if anything is marked
1237     LBOX_GetInfo(REST_RestoreWin->SelectedListBox);
1238
1239     // Quick check:
1240     // If the user selected anything it is always OK to switch.
1241     // If the search window is not displayed and nothing is marked it
1242     // is
1243     // also OK to switch.
1244
1245     if ((info == NULL) ||
1246         ((REST_SearchWindowDisplayed() &&
1247          LBOX_CurrentClientData(
1248              REST_RestoreWin->SelectedListBox) == NULL))
1249         )
1250     {
1251         return (BOOL_TRUE);
1252     }
1253 }

```

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```

1315 2 {
1316 3     /* For client selection, ask user before switching clients */
1317 4     if (info->type == REST_CLIENT)
1318 5     {
1319 6         if (GALERT_DisplayQuestion (WAlert,REST_RestoreWIn,
1320 7             REST_GetRestoreString (
1321 8                 GRCN_GetWarning (1), "WARNING", INDEX),
1322 9                 REST_GetRestoreString (
1323 4                     REST_SWITCH_CLIENT_WARNING),
1324 5                     BOOL_FALSE) != ALERT_Affirmative)
1325 6             returnStatus = BOOL_FALSE;
1326 7     }
1327 8     }
1328 9     /* If we are looking at a work-item already,
1329 10     see if it is the same one */
1330 11     else if (currentWorkItemInfo != NULL)
1331 12     {
1332 13         /* If this is a different Work-Item, ask before switching */
1333 14         if (newWorkItem != currentWorkItemInfo)
1334 15         {
1335 16             if (GALERT_DisplayQuestion (WAlert,REST_RestoreWIn,
1336 17                 REST_GetRestoreString (
1337 18                     GRCN_GetWarning (1), "WARNING", INDEX),
1338 19                     REST_GetRestoreString (
1339 20                         REST_SWITCH_CLIENT_WARNING),
1340 21                         BOOL_FALSE) != ALERT_Affirmative)
1341 22             {
1342 23                 returnStatus = BOOL_FALSE;
1343 24             }
1344 25         }
1345 26         /* Remove the search dialog if necessary */
1346 27         if (recurrences && removeSearch)
1347 28             REST_SearchRemove ();
1348 29         /* Return the determined status */
1349 30         return (returnStatus);
1350 31     }
1351 32 }

```

```

1356 1 *****
1357 2 REST_LibObjectSelectivity
1358 3 *****
1359 4 /* This routine will sensitize and desensitize the mark and unmark
1360 5 buttons
1361 6 based on the file manager's list box selection status.
1362 7 Parameters:
1363 8     None.
1364 9 Returns:
1365 10     None.
1366 11 *****
1367 12 void REST_LibObjectSelectivity (GRCN_Context Inpt)
1368 13 {
1369 14     RestoreInfoPtr info;
1370 15     Boolean
1371 16         mark = BOOL_FALSE; /* Sensitivity of the mark button */
1372 17         unmark = BOOL_FALSE; /* Sensitivity of the unmark button */
1373 18         isMarkable = FALSE; /* Flag if object is markable */
1374 19         numWorkItems = 0; /* Number of workitems selected */
1375 20     /* If a restore is in progress, don't update any sensitivity */
1376 21     if (REST_RestoreInProgress () || REST_SearchInProgress ())
1377 22         return;
1378 23     /* Get all items that are highlighted */
1379 24     info = (RestoreInfoPtr)GPRN_GetFirstSelectedBoxObject (
1380 25         fileMgrContext);
1381 26     while (info != NULL)
1382 27     {
1383 28         /* If this object is marked, sensitize the unmark button */
1384 29         if (info->marked)
1385 30             unmark = BOOL_TRUE;
1386 31         /* Else if this is a restore object, check if it is markable */
1387 32         else if (info->restoreObject != NULL)
1388 33             if (info->type == REST_WorkItem)
1389 34             {
1390 35                 mark = BOOL_TRUE;
1391 36                 numWorkItems++;
1392 37             }
1393 38         /* If this object is markable, sensitize the mark button */
1394 39         else if (GREST_IsObjectMarkable (
1395 40             GREST_Handle, info->restoreObject) &&
1396 41             ((info->status != Backup_Stat) || REST_MarkAndPrint))
1397 42             mark = BOOL_TRUE;
1398 43     }
1399 44     /* get the next selected row */
1400 45     info = !RestoreInfoPtrGPRN_GetNextSelectedBoxObject (
1401 46         fileMgrContext);
1402 47 }

```



```

1483 .....
1484 * REST_IsMarkable
1485 .....
1486 * Description:
1487 * This routine will determine if the given object is 'markable'.
1488 .....
1489 * Parameters: (I) - the object to check out
1490 * FileObject (I) - the object to check out
1491 .....
1492 * Returns:
1493 * None.
1494 .....
1495
1496 static BoolEnum REST_IsMarkable( GPURL_Context Pmgr,
1497                                     GPURL_Object FileObject )
1498 {
1499     RestoreInfoPtr info; /* The real info for the object */
1500     BoolEnum retVal; /* Value to return */
1501
1502     /* Cast back to the real object */
1503     info = (RestoreInfoPtr)FileObject;
1504
1505     /* Client's work items and areas are not markable */
1506     if (info->type == REST_Client ||
1507         info->type == REST_PalletWorkItem) {
1508         (info->type == REST_PalletWorkItem) {
1509             retVal = BOOL_FALSE;
1510         }
1511         else
1512             retVal = BOOL_TRUE;
1513     }
1514     return (retVal);
1515 }
1516
1517
1518
1519

```

```

1521 .....
1522 * REST_IsMarked
1523 .....
1524 * Description:
1525 * This routine will determine if the given object is 'marked'.
1526 .....
1527 * Parameters: (I) - the object to check out
1528 * FileObject (I) - the object to check out
1529 .....
1530 * Returns:
1531 * None.
1532 .....
1533
1534 static BoolEnum REST_IsMarked( GPURL_Context Pmgr,
1535                                     GPURL_Object FileObject )
1536 {
1537     RestoreInfoPtr info; /* The real info for the object */
1538     BoolEnum retVal; /* Value to return */
1539
1540     /* Cast back to the real object */
1541     info = (RestoreInfoPtr)FileObject;
1542
1543     return (info->marked);
1544 }
1545
1546
1547
1548

```

```

1516 1 /*.....
1517 1 * REST_IsMarkedChildren
1518 1 *
1519 1 * Description:
1520 1 * This routine will determine if the given object has any marked
1521 1 * children.
1522 1 * This routine returns true if the children exist,
1523 1 * It does not retrieve new
1524 1 * children.
1525 1 * Parameters:
1526 1 * parent (I) - the parent to check
1527 1 * Returns:
1528 1 * Boolean
1529 1
1530 1
1531 1
1532 1
1533 1 static Boolean REST_IsMarkedChildren (RestoreInfoPtr parent)
1534 1 {
1535 1     Boolean retVal = BOOL_FALSE;
1536 1     RestoreInfoPtr nextChild;
1537 1
1538 1     nextChild = parent->nextChild;
1539 1     while (!retVal && (nextChild != NULL))
1540 1     {
1541 1         if (nextChild->marked)
1542 1         {
1543 1             retVal = BOOL_TRUE;
1544 1         }
1545 1         else
1546 1         {
1547 1             retVal = REST_IsMarkedChildren (nextChild);
1548 1             nextChild = nextChild->next;
1549 1         }
1550 1     }
1551 1     return (retVal);
1552 1 }
1553 1
1554 1

```

```

1561 1 /*.....
1562 1 * REST_IsPartialMarked
1563 1 *
1564 1 * Description:
1565 1 * This routine will determine if the given object is 'marked'.
1566 1 * This routine returns true if the object is marked,
1567 1 * It does not retrieve new
1568 1 * children.
1569 1 * Parameters:
1570 1 * fileObject (I) - the object to check out
1571 1 * Returns:
1572 1 * Boolean
1573 1 * None
1574 1
1575 1
1576 1
1577 1
1578 1 static Boolean REST_IsPartialMarked (GPNOR_Context Msg,
1579 1     GPNOR_Object fileObject)
1580 1 {
1581 1     RestoreInfoPtr info; /* The real info for the object */
1582 1     Boolean retVal = BOOL_FALSE;
1583 1     RestoreInfoPtr nextInfo;
1584 1     RestoreInfoPtr childInfo;
1585 1     SET
1586 1     fullName;
1587 1
1588 1     /* Cast back to the real object */
1589 1     info = (RestoreInfoPtr)fileObject;
1590 1
1591 1     if (info->restoreObject != NULL)
1592 1     {
1593 1         /* Determine if any existing children are marked */
1594 1         retVal = REST_IsMarkedChildren (info);
1595 1     }
1596 1     else
1597 1     {
1598 1         if (retVal != BOOL_TRUE)
1599 1         {
1600 1             /* If there are no marks, then nothing is partially marked */
1601 1             LBOX_GoDown (REST_RestoreWin->SelectedListBox);
1602 1             nextInfo = LBOX_CurrentClientData (REST_RestoreWin->SelectedListBox);
1603 1             while (!retVal && (nextInfo != NULL))
1604 1             {
1605 1                 fullName = get_string (REST_GetFullName(nextInfo));
1606 1                 childInfo = REST_FindInfoInChildren (fullName, info, BOOL_FALSE);
1607 1                 if ((childInfo != NULL) && (childInfo->marked))
1608 1                 {
1609 1                     retVal = BOOL_TRUE;
1610 1                 }
1611 1                 else
1612 1                 {
1613 1                     LBOX_GoDown (REST_RestoreWin->SelectedListBox);
1614 1                     nextInfo = LBOX_CurrentClientData (REST_RestoreWin->SelectedListBox);
1615 1                 }
1616 1             }
1617 1             retVal = BOOL_FALSE;
1618 1         }
1619 1     }
1620 1     return (retVal);
1621 1 }
1622 1

```

```

1341  /*.....
1342  * REST_ToggleMarked
1343  * description:
1344  * This routine will toggle the mark status of the given object.
1345  * Parameters:
1346  *   fileObject (i) - The file manager object to toggle
1347  * Returns:
1348  *   None.
1349  *.....
1350  void REST_ToggleMarked ( GPRM_Context tng;
1351                          GPRM_Object fileObject )
1352  {
1353      RestoreInfo* info;
1354      long
1355          numbered = 0; /* The real info for the object */
1356          unnumbered = 0; /* Number of had files marked */
1357      RestoreInfo* tempObject; /* Pointer to walk the list with */
1358      neworkItem neworkItem = NULL; /* Work item for the selected object */
1359      RestoreInfo* tempInfo; /* The parent object in the stream */
1360
1361      /* If a restore is in progress, no marking is allowed */
1362      if (REST_RestoreInProgress() || REST_SearchInProgress())
1363          return;
1364
1365      /* Get back to the real object */
1366      info = (RestoreInfo*)fileObject;
1367
1368      if ((info != NULL) &&
1369          ((currentWorkItemInfo != NULL) || { info->type == REST_WorkItem}))
1370      {
1371          /* Find the work-item object for this object */
1372          tempObject = info;
1373          while ((neworkItem == NULL) && (tempObject != NULL))
1374          {
1375              /* If this is the work-item object we're done */
1376              if (tempObject->type == REST_WorkItem)
1377              {
1378                  neworkItem = tempObject;
1379              }
1380              /* else try its parent */
1381              else
1382              {
1383                  tempObject = tempObject->parent;
1384              }
1385          }
1386          /* If this is a different workItem */
1387          if (neworkItem != currentWorkItemInfo)
1388          {
1389              /* If the client is selected, then we might be able to mark */
1390              tempInfo = (neworkItemInfo) gprmk_getFirstSelectedObject (
1391                  tng.getContext());
1392              if (tempInfo->type == REST_WorkItem) &&
1393                  (info->type == REST_WorkItem) &&
1394                      (REST_VerifySection (fileObject,
1395                          tng.getContext(),

```

```

1409  neworkItem,
1410  BOOL_FALSE))
1411  {
1412      /*
1413      * select the work item,
1414      * which isn't really the desired result, we have to have the
1415      * workItem in the stream in order to continue
1416      */
1417      GPRM_SelectedObject (fileObject, {
1418          GPRM_Object info, BOOL_TRUE)
1419      }
1420      else
1421      {
1422          return;
1423      }
1424      /* This may take a while so display a wait cursor */
1425      NOT_UsualCursor (tng.getContext());
1426
1427      /* Continue with the operation if:
1428      * The object is marked (anything can be unmarked)
1429      * The object is a higher level object (streamItem)
1430      * The object is marked for the given time and passes file test
1431      */
1432      if ((info->marked) ||
1433          ((info->type == REST_File) && {
1434              info->type != REST_Directory)) ||
1435          ((GPRM_IsObjectMarkable (GPRM_Handle, info->parentObject) &&
1436              ((info->status != Backup_Bad) || REST_MarkedForTime))
1437              if ((info->marked && REST_Unmarked) ||
1438                  (info->numMarked, unnumbered) ||
1439                      (info->numMarked, unnumbered))
1440              {
1441                  REST_UpdateMarkedData (numbered, unnumbered);
1442                  gprmk_UpdateParent (tng.getContext(), REST_SelectedListBox);
1443                  REST_UpdateRemoveButtons ();
1444              }
1445          }
1446          /* Display the normal cursor again */
1447          NOT_UsualCursor (tng.getContext(), CURS_ARROW));

```





```

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2  * reestProgmainObj.c
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67  * A delay are in milliseconds */
68  #define RESTORE_DONE_DELAY 1
69  #define RESTORE_CHECK_CANCEL_DELAY 5000
70  #define RESTORE_CHECK_SUMMIT_DELAY 500
71  #define RESTORE_CHECK_SYNCOUT_DELAY 500
72  #define HORIZONTAL_MARGIN 5
73  #define VERTICAL_MARGIN 2
74
75  #define SEPARATOR_CHAR " "
76
77  /* Local data structures */
78
79  /* Global Variables */
80
81  /* ===== */
82
83  static Boolean REST_ProgressDisplayed = BOOL_FALSE;
84  static RestProgressWinPtr REST_ProgressWinPtr = NULL,
85
86  /* Flags for restore progress */
87
88  #define REST_PROGRESS_DONE = BOOL_FALSE;
89  #define REST_PROGRESS_CANCEL = BOOL_FALSE;
90  #define REST_PROGRESS_SYNCOUT = BOOL_FALSE;
91
92  #define NEW_WMT_ICONS 3
93  #define UPDATE_ICON_COUNT 3
94  #define UPDATE_ICON_COUNT 3
95  #define REST_ICON_COUNT 0;
96  #define REST_ICON_COUNT 0;
97  static int iconCount = 0;
98
99  static int checkForCancel = 0;
100
101  static Line REST_FirstDeclaration = 0;
102
103  /* ===== */
104  #define REST_SetRestoreVisibility
105
106  /* Description:
107  * This routine will set the visibility status of widgets based on
108  * whether or not a restore is in progress.
109  * Parameters:
110  * visible (ii) - value of the visibility to set
111  * Returns:
112  * None.
113  */
114
115  void REST_SetRestoreVisibility (Boolean visible)
116  {
117      Boolean origStatus; /* Original status of read flag */
118
119      /* If the state is not visible,
120      * disable options not valid during restore */
121      if (!visible)
122      {
123          /* Restrict all actions in the FS options Panel */
124          GUTTL_WMT_SetEnabled (1)
125              widget(REST_RestoreWin->FSOptionsPanel, BOOL_FALSE);
126
127          /* Restrict marking, unmarking, and searching */
128          GUTTL_WMT_SetEnabled (1)
129              widget(REST_RestoreWin->MarkButton, BOOL_FALSE);
130
131          widget(REST_RestoreWin->
132              restProgressWin2
133              restProgressWin2
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512              restProgressWin
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110 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->MaxButton, BOOL_FALSE);	142 2	/* Reset the start button */
111 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->SearchButton, BOOL_FALSE);	143 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->StartButton, BOOL_TRUE);
112 2	/* Restore unmarking from the mark summary */	144 2	/* Reset the close button */
113 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->RemoveButton, BOOL_FALSE);	145 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->CloseButton, BOOL_TRUE);
114 2	WgetPc)REST_RestoreWin->ClearButton, BOOL_FALSE);	146 2	/* Reset the path red */
115 2	/* Don't let another restore start */	147 2	WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);
116 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->StartButton, BOOL_FALSE);	148 2	/* Reset the search window buttons */
117 2	/* Don't let the user close the window */	149 2	if (REST_SearchWindowDisplayed (1))
118 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->CloseButton, BOOL_FALSE);	150 2	REST_SearchWindowButtons (1);
119 2	WgetPc)REST_RestoreWin->CloseButton, BOOL_FALSE);	151 2	}
120 2	/* Don't let the user change the path */	152 2	}
121 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_FALSE);	153 2	}
122 2	/* Don't let the user do anything in the search window */	154 2	}
123 2	if (REST_SearchWindowDisplayed (1))	155 2	/* Else, not the states back to what they should be */
124 2	{	156 2	/* If we are doing FS restore,
125 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_SearchWindow->MaxButton, BOOL_FALSE);	157 2	/* If we are doing FS restore,
126 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_SearchWindow->SearchButton, BOOL_FALSE);	158 2	/* If we are doing FS restore,
127 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_SearchWindow->StartButton, BOOL_FALSE);	159 2	/* If we are doing FS restore,
128 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_SearchWindow->CloseButton, BOOL_FALSE);	160 2	/* If we are doing FS restore,
129 2	WgetPc)REST_SearchWindow->CloseButton, BOOL_FALSE);	161 2	/* If we are doing FS restore,
130 2	/* Restore the start button */	162 2	/* If we are doing FS restore,
131 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->MaxButton, BOOL_TRUE);	163 2	/* If we are doing FS restore,
132 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->SearchButton, BOOL_TRUE);	164 2	/* If we are doing FS restore,
133 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->StartButton, BOOL_TRUE);	165 2	/* If we are doing FS restore,
134 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->RemoveButton, BOOL_TRUE);	166 2	/* If we are doing FS restore,
135 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->ClearButton, BOOL_TRUE);	167 2	/* If we are doing FS restore,
136 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->CloseButton, BOOL_TRUE);	168 2	/* If we are doing FS restore,
137 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);	169 2	/* If we are doing FS restore,
138 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);	170 2	/* If we are doing FS restore,
139 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);	171 2	/* If we are doing FS restore,
140 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);	172 2	/* If we are doing FS restore,
141 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);	173 2	/* If we are doing FS restore,
142 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);	174 2	/* If we are doing FS restore,
143 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);	175 2	/* If we are doing FS restore,
144 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);	176 2	/* If we are doing FS restore,
145 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);	177 2	/* If we are doing FS restore,
146 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);	178 2	/* If we are doing FS restore,
147 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);	179 2	/* If we are doing FS restore,
148 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);	180 2	/* If we are doing FS restore,
149 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
150 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
151 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
152 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
153 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
154 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
155 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
156 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
157 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
158 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
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160 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
161 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
162 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
163 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
164 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
165 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
166 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
167 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
168 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
169 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
170 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
171 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
172 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
173 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
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175 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
176 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
177 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
178 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
179 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		
180 2	GUTFL_MKT_SecEnabled (( WgetPc)REST_RestoreWin->PathRed, BOOL_TRUE);		

[illegible]

```

368 2 yRect.y = yRect.x - 2 * percent.Y;
369 3
370 4 * Define the rectangle that borders the widget */
371 5 drawBox(0,1,x = widget.X;
372 6 drawBox(0,1,y = widget.Y;
373 7 drawBox(xRect.x = widget.X;
374 8 drawBox(xRect.y = widget.Y;
375 9
376 10 {
377 11     if (testOverInProgress && !testOverCancelled)
378 12     {
379 13         fillColor = COLOR.Transparent (1);
380 14         bgColor = !testOverCancelled ? widget.drawArea;
381 15         else
382 16         {
383 17             status = (return N)?WMT_GetClicStatus (drawArea);
384 18             if (testOverCancelled)
385 19             {
390 19                 fillColor = WMT_GetFillColor (!widget.drawArea);
391 20                 bgColor = WMT_GetBgColor (!widget.drawArea);
392 21             }
393 22             else if (status == E_SUCCESS)
394 23             {
395 24                 fillColor = COLOR.Black (1);
396 25                 bgColor = COLOR.Green (1);
397 26             }
398 27             else
399 28             {
400 29                 fillColor = COLOR.Black (1);
401 30                 bgColor = COLOR.Red (1);
402 31             }
403 32         }
404 33     }
405 34 }
406 35
407 36 /* First draw a box around the entire widget */
408 37 DRAW_SetContext (drawArea,
409 38                 COLOR.Transparent (1),
410 39                 bgColor,fill);
411 39
412 40 WMT_SetFont (drawArea);
413 41 WMT_GetFont (drawArea);
414 42 DRAW_Rect (drawArea, xRectBox);
415 43
416 44 if (testOverInProgress && !testOverCancelled)
417 45 {
418 46     if (percentage >= 0)
419 47     {
420 48         /* Now determine how much to fill in */
421 49         float fillBoxX = widget.X;
422 50         fillBox(0,1,y = widget.Y;
423 51         fillBox(xRect.x = !fillBox(fillBoxX * { {
424 52             float(percentAge/100.0));
425 53         }
426 54         fillBox(xRect.y = widget.Y;
427 55     }
428 56 }
429 57
430 58 /* Now draw the filled area depicting the percent complete */
431 59 DRAW_SetContext (drawArea,
432 60                 WMT_GetFillColor (drawArea),
433 61                 WMT_GetBgColor (drawArea),
434 62                 WMT_SetFont (drawArea),
435 63                 WMT_GetFont (drawArea));
436 64 DRAW_Rect (drawArea, fillBox);
437 65 }
438 66
439 67 /* Determine the string to draw and its size */
440 68 if (percentage >= 0)
441 69 {
442 70     resProgressBar.C
443 71     resProgressBar.C
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446 74     resProgressBar.C
447 75     resProgressBar.C
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692 320    resProgressBar.C
693 321    resProgressBar.C
694 322    resProgressBar.C
695 323    resProgressBar.C
696 324    resProgressBar.C
697 325    resProgressBar.C
698 326    resProgressBar.C
699 327    resProgressBar.C
700 328    resProgressBar.C
701 329    resProgressBar.C
702 330    resProgressBar.C
703 331    resProgressBar.C
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705 333    resProgressBar.C
706 334    resProgressBar.C
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```



Draw\_ClipboardRect (drawArea,

6 FigBox,  
DRAW\_JUSTLEFT | DRAW\_JUSTVCENTER,  
drawRecting)

436 2 }  
437 2 }  
438 2 }  
439 2 }  
440 2 }  
441 2 }  
442 2 }

/\* End clipping \*/

Draw\_Clipboard (drawArea);

.....  
Function Name: RST\_GetDecasizeString()  
.....

Description:  
This function will set the give string to represent the value  
of the number of bytes given in sizeInKB.

If the value is less than 1000, it will display in KB

If the value is greater than 1000, it will display in MB

If the value is greater than 1000000, it will display in GB

Parameters:

(0) sizeInSize - Size of the data in KB

Success Outputs and Side Effects:  
None.

void RST\_GetDecasizeString (u\_long sizeInKB,  
Siz sizeString)

{  
if (sizeInKB < KBBYTES)

{  
/\* Display K Bytes \*/  
STR\_Sprintf (sizeString, "%u KB", sizeInKB);  
} else if (sizeInKB < MBBYTES)

{  
/\* Display M Bytes with 2 decimal places \*/  
STR\_Sprintf (sizeString, "%.2f MB", (float)sizeInKB);  
} else

{  
/\* Display G Bytes with 2 decimal places \*/  
STR\_Sprintf (sizeString, "%.2f GB", (float)sizeInKB / (float)KBBYTES);  
}

{  
/\* Display C Bytes with 2 decimal places \*/  
STR\_Sprintf (sizeString, "%.2f CB", (float)sizeInKB / (float)KBBYTES);  
}

504 1 }

```

506 .....
507 * REST_ProgressUpdate
508 .....
509 * Description:
510 * This routine will display the progress window.
511 * Parameters:
512 * currentProgram - The progress information to display
513 * Returns:
514 * TRUE - if the user hit the cancel button
515 * BOOL FALSE - otherwise.
516 .....
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615  /***** REST_ProgressDisplayError *****/
616
617  * Description:
618  * This routine will display an error in the Progress window.
619  * Parameters:
620  * status - The error number.
621  * feedbackObject - The feedback object for more info
622  * Returns:
623  * None.
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847  /* *****
848  * RST_DisplayDone
849  *
850  * Description:
851  * This routine is the routine which will display the done
852  * dialog when started for a file system restore.
853  *
854  * Parameters:
855  * (1) - The restore status.
856  * status
857  * feedbackObject (1) - The restore feedback object
858  * Returns:
859  * None.
860  *
861  * *****
862  */
863  void RST_DisplayDone (restore_t* status,
864                      feedbackObject* feedbackObject)
865  {
866      ERMSThread* ermThread;
867      RMSThread* rmThread;
868      char
869      time_t
870      now;
871
872      /* Reset the restore flags */
873      restoreInProgress = BOOL_FALSE;
874      restoreCancelled = BOOL_FALSE;
875
876      /* Update the end time to the current time */
877      now = time(NULL);
878      MEDIUM_STRING_LENGTH,
879      strftime (outString,
880              MEDIUM_STRING_LENGTH,
881              "%d-%m-%Y",
882              gmtime (&now));
883      TRD_Sortier ((TRDtr) RST_ProgressWindow->EndTrMethod, outString);
884
885      /* If the status is successful, check for underlying errors */
886      if (status == E_SUCCESS)
887      {
888          ERMSThread* ermThreadObject {
889              if (ERMSThreadObjectIsCancelled (GMSR_Handle, feedbackObject);
890              withObject = ERMSThreadObject (GMSR_Handle, feedbackObject);
891              while (status == E_SUCCESS) && (withObject != NULL))
892              {
893                  status = ERMSThreadObjectIsCancelled (GMSR_Handle, withObject);
894                  withObject = ERMSThreadObject (GMSR_Handle, withObject);
895              }
896          }
897
898          /* Display the return status */
899          RST_ProgressDisplayError (status, feedbackObject);
900
901          RST_SetRestoreValidity (BOOL_TRUE);
902      }
903  }

```

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905  /* *****
906  * RST_RestoreInProgress
907  *
908  * Description:
909  * This routine returns whether or not a restore is currently in
910  * progress.
911  *
912  * Parameters:
913  * None.
914  *
915  * Returns:
916  * BOOL_TRUE - If a restore has been started
917  * and is not yet finished
918  * BOOL_FALSE - Otherwise.
919  *
920  * *****
921  */
922  Boolean RST_RestoreInProgress (void)
923  {
924      return (restoreInProgress);
925  }

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955 .....
956 * RST_DisplayQuestion
957 *
958 * Description:
959 * This routine will display a question needed by the running
960 * restored to the user.
961 *
962 * Parameters:
963 * None.
964 *
965 * Returns:
966 * None.
967 *
968 .....
969 static void RST_DisplayQuestion (void)
970 {
971     static int
972     questionObject;
973     int
974     gpanel_FieldInfo
975     int
976     long
977     cookie = INT_COOKIE;
978     numItems = 0;
979     gpanel_PanelIndexType
980     panelType;
981     int
982     int
983     gpanel_PanelHandle
984     int
985     char
986     selections;
987     selections[16];
988     int
989     int
990     bool
991     bool
992     if (questionDisplayed == BOOL_FALSE;
993         outString[64]);
994     if (questionDisplayed)
995     {
996         if (status = ERMST_AllowQueryObject (questHandle,
997             &questionObject)) !=
998             E_SUCCESS)
999         {
1000             RST_DisplayErrMsg (WMFPR_T_RST_ProgressWindow,
1001                 NULL,
1002                 status);
1003             return;
1004         }
1005         /* Flag that we are displaying a question dialog already */
1006         questionDisplayed = BOOL_TRUE;
1007         if (ERMST_GetQuestion (questHandle, questionObject) == E_SUCCESS)
1008         {
1009             questionType = ERMST_GetQuestionType (
1010                 questHandle, questionObject);
1011             if (questionType == QTYPE_YESNO)
1012             {
1013                 numItems = 1;
1014                 gpanel_CallProc (sizeof(Str));
1015                 if (ERMST_DisplayQuestion
1016                     (WMFPR_T_RST_RestoreWin,
1017                     (Str, ERMST_GetQuestionHandle) {
1018                         RST_ProgressDlg.c 21
1019                     }
1020                 )
1021             }
1022         }
1023     }
1024 }
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1042 6	1102 5	if (atDefault)	panelType = GRANEL_1700G;L	panelType = GRANEL_1700G;L
1043 7	1103 5	{	panelhandle = GRANEL_CreateHandle (panelType);	panelhandle = GRANEL_CreateHandle (panelType);
1044 8	1104 5	panelFields[0].details.radio.selection = 1;	panelFields = GRANEL_GetFields (panelhandle);	panelFields = GRANEL_GetFields (panelhandle);
1045 9	1105 5	}	panelFields[0].fieldName = NULL;	panelFields[0].fieldName = NULL;
1046 10	1106 5	break;	panelFields[0].details.spin.value = 0;	panelFields[0].details.spin.value = 0;
1047 11	1107 5		break;	break;
1048 12	1108 5	case QTYPE_MULTI:	default:	default:
1049 13	1109 5	numChoices = GRANEL_GetQuestNumChoices (	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1050 14	1110 5	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1051 15	1111 5	if (numChoices > 3)	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1052 16	1112 5	{	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1053 17	1113 5	print (	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1054 18	1114 5	"Unsupported number of choices: %d, can only accept 3\n",	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1055 19	1115 5	numChoices + 3);	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1056 20	1116 5	break;	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1057 21	1117 5	if (numChoices == 1)	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1058 22	1118 5	{	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1059 23	1119 5	panelType = GRANEL_1700G;L	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1060 24	1120 5	else if (numChoices == 2)	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1061 25	1121 4	{	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1062 26	1122 4	panelType = GRANEL_2700G;L	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1063 27	1123 4	else	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1064 28	1124 4	{	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1065 29	1125 4	panelType = GRANEL_1700G;L	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1066 30	1126 4	}	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1067 31	1127 4	panelhandle = GRANEL_CreateHandle (panelType);	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1068 32	1128 4	panelFields = GRANEL_GetFields (panelhandle);	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1069 33	1129 4	for (i=0; i < numChoices; i++)	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1070 34	1130 4	{	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1071 35	1131 4	panelFields[i].fieldName = sel_string	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1072 36	1132 4	(EMRST_GetQuestNumChoices (QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1073 37	1133 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1074 38	1134 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1075 39	1135 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1076 40	1136 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1077 41	1137 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1078 42	1138 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1079 43	1139 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1080 44	1140 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1081 45	1141 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1082 46	1142 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1083 47	1143 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1084 48	1144 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1085 49	1145 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1086 50	1146 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1087 51	1147 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1088 52	1148 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1089 53	1149 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1090 54	1150 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1091 55	1151 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1092 56	1152 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1093 57	1153 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1094 58	1154 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1095 59	1155 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1096 60	1156 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1097 61	1157 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1098 62	1158 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1099 63	1159 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1100 64	1160 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1101 65	1161 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1102 66	1162 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1103 67	1163 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1104 68	1164 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1105 69	1165 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1106 70	1166 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1107 71	1167 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1108 72	1168 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1109 73	1169 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1110 74	1170 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1111 75	1171 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1112 76	1172 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1113 77	1173 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1114 78	1174 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1115 79	1175 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1116 80	1176 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1117 81	1177 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1118 82	1178 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1119 83	1179 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1120 84	1180 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1121 85	1181 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1122 86	1182 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1123 87	1183 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1124 88	1184 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
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1127 91	1187 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
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1168 132	1228 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
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1174 138	1234 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
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1176 140	1236 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
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1186 150	1246 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
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1210 174	1270 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1211 175	1271 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1212 176	1272 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1213 177	1273 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1214 178	1274 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1215 179	1275 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1216 180	1276 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1217 181	1277 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1218 182	1278 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1219 183	1279 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1220 184	1280 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1221 185	1281 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1222 186	1282 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1223 187	1283 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1224 188	1284 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1225 189	1285 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle, queryObject);
1226 190	1286 4	QUEST_Handle,	QUEST_Handle, GRANEL_Handle, queryObject);	QUEST_Handle, GRANEL_Handle



1235	1237	1239	1241	1243	1245	1247	1249	1251	1253	1255	1257	1259	1261	1263	1265	1267	1269	1271	1273	1275	1277	1279	1281	1283	1285	1287	1289	1291	1293	1295	1297	1299	1301	1303	1305	1307	1309	1311	1313	1315	1317	1319	1321	1323	1325	1327	1329	1331	1333	1335	1337	1339	1341	1343	1345	1347	1349	1351	1353	1355	1357	1359	1361	1363	1365	1367	1369	1371	1373	1375	1377	1379	1381	1383	1385	1387	1389	1391	1393	1395	1397	1399	1401	1403	1405	1407	1409	1411	1413	1415	1417	1419	1421	1423	1425	1427	1429	1431	1433	1435	1437	1439	1441	1443	1445	1447	1449	1451	1453	1455	1457	1459	1461	1463	1465	1467	1469	1471	1473	1475	1477	1479	1481	1483	1485	1487	1489	1491	1493	1495	1497	1499	1501	1503	1505	1507	1509	1511	1513	1515	1517	1519	1521	1523	1525	1527	1529	1531	1533	1535	1537	1539	1541	1543	1545	1547	1549	1551	1553	1555	1557	1559	1561	1563	1565	1567	1569	1571	1573	1575	1577	1579	1581	1583	1585	1587	1589	1591	1593	1595	1597	1599	1601	1603	1605	1607	1609	1611	1613	1615	1617	1619	1621	1623	1625	1627	1629	1631	1633	1635	1637	1639	1641	1643	1645	1647	1649	1651	1653	1655	1657	1659	1661	1663	1665	1667	1669	1671	1673	1675	1677	1679	1681	1683	1685	1687	1689	1691	1693	1695	1697	1699	1701	1703	1705	1707	1709	1711	1713	1715	1717	1719	1721	1723	1725	1727	1729	1731	1733	1735	1737	1739	1741	1743	1745	1747	1749	1751	1753	1755	1757	1759	1761	1763	1765	1767	1769	1771	1773	1775	1777	1779	1781	1783	1785	1787	1789	1791	1793	1795	1797	1799	1801	1803	1805	1807	1809	1811	1813	1815	1817	1819	1821	1823	1825	1827	1829	1831	1833	1835	1837	1839	1841	1843	1845	1847	1849	1851	1853	1855	1857	1859	1861	1863	1865	1867	1869	1871	1873	1875	1877	1879	1881	1883	1885	1887	1889	1891	1893	1895	1897	1899	1901	1903	1905	1907	1909	1911	1913	1915	1917	1919	1921	1923	1925	1927	1929	1931	1933	1935	1937	1939	1941	1943	1945	1947	1949	1951	1953	1955	1957	1959	1961	1963	1965	1967	1969	1971	1973	1975	1977	1979	1981	1983	1985	1987	1989	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	2023	2025	2027	2029	2031	2033	2035	2037	2039	2041	2043	2045	2047	2049	2051	2053	2055	2057	2059	2061	2063	2065	2067	2069	2071	2073	2075	2077	2079	2081	2083	2085	2087	2089	2091	2093	2095	2097	2099	2101	2103	2105	2107	2109	2111	2113	2115	2117	2119	2121	2123	2125	2127	2129	2131	2133	2135	2137	2139	2141	2143	2145	2147	2149	2151	2153	2155	2157	2159	2161	2163	2165	2167	2169	2171	2173	2175	2177	2179	2181	2183	2185	2187	2189	2191	2193	2195	2197	2199	2201	2203	2205	2207	2209	2211	2213	2215	2217	2219	2221	2223	2225	2227	2229	2231	2233	2235	2237	2239	2241	2243	2245	2247	2249	2251	2253	2255	2257	2259	2261	2263	2265	2267	2269	2271	2273	2275	2277	2279	2281	2283	2285	2287	2289	2291	2293	2295	2297	2299	2301	2303	2305	2307	2309	2311	2313	2315	2317	2319	2321	2323	2325	2327	2329	2331	2333	2335	2337	2339	2341	2343	2345	2347	2349	2351	2353	2355	2357	2359	2361	2363	2365	2367	2369	2371	2373	2375	2377	2379	2381	2383	2385	2387	2389	2391	2393	2395	2397	2399	2401	2403	2405	2407	2409	2411	2413	2415	2417	2419	2421	2423	2425	2427	2429	2431	2433	2435	2437	2439	2441	2443	2445	2447	2449	2451	2453	2455	2457	2459	2461	2463	2465	2467	2469	2471	2473	2475	2477	2479	2481	2483	2485	2487	2489	2491	2493	2495	2497	2499	2501	2503	2505	2507	2509	2511	2513	2515	2517	2519	2521	2523	2525	2527	2529	2531	2533	2535	2537	2539	2541	2543	2545	2547	2549	2551	2553	2555	2557	2559	2561	2563	2565	2567	2569	2571	2573	2575	2577	2579	2581	2583	2585	2587	2589	2591	2593	2595	2597	2599	2601	2603	2605	2607	2609	2611	2613	2615	2617	2619	2621	2623	2625	2627	2629	2631	2633	2635	2637	2639	2641	2643	2645	2647	2649	2651	2653	2655	2657	2659	2661	2663	2665	2667	2669	2671	2673	2675	2677	2679	2681	2683	2685	2687	2689	2691	2693	2695	2697	2699	2701	2703	2705	2707	2709	2711	2713	2715	2717	2719	2721	2723	2725	2727	2729	2731	2733	2735	2737	2739	2741	2743	2745	2747	2749	2751	2753	2755	2757	2759	2761	2763	2765	2767	2769	2771	2773	2775	2777	2779	2781	2783	2785	2787	2789	2791	2793	2795	2797	2799	2801	2803	2805	2807	2809	2811	2813	2815	2817	2819	2821	2823	2825	2827	2829	2831	2833	2835	2837	2839	2841	2843	2845	2847	2849	2851	2853	2855	2857	2859	2861	2863	2865	2867	2869	2871	2873	2875	2877	2879	2881	2883	2885	2887	2889	2891	2893	2895	2897	2899	2901	2903	2905	2907	2909	2911	2913	2915	2917	2919	2921	2923	2925	2927	2929	2931	2933	2935	2937	2939	2941	2943	2945	2947	2949	2951	2953	2955	2957	2959	2961	2963	2965	2967	2969	2971	2973	2975	2977	2979	2981	2983	2985	2987	2989	2991	2993	2995	2997	2999	3001	3003	3005	3007	3009	3011	3013	3015	3017	3019	3021	3023	3025	3027	3029	3031	3033	3035	3037	3039	3041	3043	3045	3047	3049	3051	3053	3055	3057	3059	3061	3063	3065	3067	3069	3071	3073	3075	3077	3079	3081	3083	3085	3087	3089	3091	3093	3095	3097	3099	3101	3103	3105	3107	3109	3111	3113	3115	3117	3119	3121	3123	3125	3127	3129	3131	3133	3135	3137	3139	3141	3143	3145	3147	3149	3151	3153	3155	3157	3159	3161	3163	3165	3167	3169	3171	3173	3175	3177	3179	3181	3183	3185	3187	3189	3191	3193	3195	3197	3199	3201	3203	3205	3207	3209	3211	3213	3215	3217	3219	3221	3223	3225	3227	3229	3231	3233	3235	3237	3239	3241	3243	3245	3247	3249	3251	3253	3255	3257	3259	3261	3263	3265	3267	3269	3271	3273	3275	3277	3279	3281	3283	3285	3287	3289	3291	3293	3295	3297	3299	3301	3303	3305	3307	3309	3311	3313	3315	3317	3319	3321	3323	3325	3327	3329	3331	3333	3335	3337	3339	3341	3343	3345	3347	3349	3351	3353	3355	3357	3359	3361	3363	3365	3367	3369	3371	3373	3375	3377	3379	3381	3383	3385	3387	3389	3391	3393	3395	3397	3399	3401	3403	3405	3407	3409	3411	3413	3415	3417	3419	3421	3423	3425	3427	3429	3431	3433	3435	3437	3439	3441	3443	3445	3447	3449	3451	3453	3455	3457	3459	3461	3463	3465	3467	3469	3471	3473	3475	3477	3479	3481	3483	3485	3487	3489	3491	3493	3495	3497	3499	3501	3503	3505	3507	3509	3511	3513	3515	3517	3519	3521	3523	3525	3527	3529	3531	3533	3535	3537	3539	3541	3543	3545	3547	3549	3551	3553	3555	3557	3559	3561	3563	3565	3567	3569	3571	3573	3575	3577	3579	3581	3583	3585	3587	3589	3591	3593	3595	3597	3599	3601	3603	3605	3607	3609	3611	3613	3615	3617	3619	3621	3623	3625	3627	3629	3631	3633	3635	3637	3639	3641	3643	3645	3647	3649	3651	3653	3655	3657	3659	3661	3663	3665	3667	3669	3671	3673	3675	3677	3679	3681	3683	3685	3687	3689	3691	3693	3695	3697	3699	3701	3703	3705	3707	3709	3711	3713	3715	3717	3719	3721	3723	3725	3727	3729	3731	3733	3735	3737	3739	3741	3743	3745	3747	3749	3751	3753	3755	3757	3759	3761	3763	3765	3767	3769	3771	3773	3775	3777	3779	3781	3783	3785	3787	3789	3791	3793	3795	3797	3799	3801	3803	3805	3807	3809	3811	3813	3815	3817	3819	3821	3823	3825	3827	3829	3831	3833	3835	3837	3839	3841	3843	3845	3847	3849	3851	3853	3855	3857	3859	3861	3863	3865	3867	3869	3871	3873	3875	3877	3879	3881	3883	3885	3887	3889	3891	3893	3895	3897	3899	3901	3903	3905	3907	3909	3911	3913	3915	3917	3919	3921	3923	3925	3927	3929	3931	3933	3935	3937	3939	3941	3943	3945	3947	3949	3951	3953	3955	3957	3959	3961	3963	3965	3967	3969	3971	3973	3975	3977	39
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1357 2    }
1358 1    else
1359 1    {
1360 1        /* Display the Done dialog */
1361 1        REST_DisplayDone (status, feedbackObject);
1362 1    }
1363 1
1364 2    /* Done with the feedback object */
1365 2    EXHIST_FreeFeedbackObject (EXHIST_Handle, &feedbackObject);
1366 1
1367 1    }

```

```

1368 1    }
1369 1
1370 1    /* Description:
1371 1    * This routine get the results to the submit call and stores
1372 1    * the results if successful.
1373 1    * Parameters:
1374 1    * clientData - The submit ID
1375 1    * Returns:
1376 1    * None.
1377 1
1378 1    */
1379 1
1380 1
1381 1
1382 1
1383 1
1384 1    static void REST_GetSubmitResults (ClientPtr clientData)
1385 1    {
1386 1        unsigned int submitId;
1387 1        status;
1388 1        objectDone = 0;
1389 1        unsigned long

```

```

1390 1    {
1391 1        /* Get the results of the submit */
1392 1        if (status = EXHIST_GetSubmitResults
1393 1            (clientData, &submitId, &status, &objectDone) ==
1394 1            EP_OK)
1395 1        {
1396 1            /* Add a timeout to try again after a delay */
1397 1            EXHIST_SetTimeout (clientData, &submitId,
1398 1                EXHIST_GetSubmitResults,
1399 1                CLIENT_PERIODIC,
1400 1                RESTORE_CHECK, SUBMIT_DELAY);
1401 1        }
1402 1        else
1403 1        {
1404 1            /* If submit did not succeed, display an error message */
1405 1            if (status != E_SUCCESS)
1406 1            {
1407 1                restoreInProgress = BOOL_FALSE;
1408 1                restoreCancelled = BOOL_FALSE;
1409 1                REST_SetRestoreVisibility (BOOL_TRUE);
1410 1            }
1411 1            REST_ProgressDisplayError (status, NULL);
1412 1        }
1413 1        else if (!restoreCancelled)
1414 1        {
1415 1            /* Gentlemen start your engines */
1416 1            if ((status = EXHIST_Start (EXHIST_Handle, submitId) != E_SUCCESS)
1417 1                || !restoreInProgress || !restoreCancelled)
1418 1            {
1419 1                /* Er up, won't start, display the error message */
1420 1                REST_SetRestoreVisibility (BOOL_TRUE);
1421 1                REST_ProgressDisplayError (status, NULL);
1422 1            }
1423 1        }
1424 1    }
1425 1
1426 1
1427 1
1428 1
1429 1
1430 1
1431 1    else

```





1	/* -- Template created by NIMON DATA Open Interface.	/*	/*
2	/* -- Do not alter 'Codegen', 'Directives'.	/*	/*
3	/* (( Codegen: GeneratorVersion 4 ))	/*	/*
4	/* -- Code generated on 06/30/99 at 10:43:40.	/*	/*
5	/* -- Code regenerated on 07/22/99 at 13:35:35.	/*	/*
6	/* -- Code regenerated on 07/22/99 at 13:35:30.	/*	/*
7	/* -- Code regenerated on 08/12/99 at 14:39:17.	/*	/*
8	/* -- Code regenerated on 08/13/99 at 10:57:20.	/*	/*
9	/* -- Code regenerated on 08/16/99 at 10:34:32.	/*	/*
10	/* -- Code regenerated on 08/30/99 at 15:12:28.	/*	/*
11	/* -- Code regenerated on 08/31/99 at 07:58:51.	/*	/*
12	/* -- Code regenerated on 08/31/99 at 08:03:13.	/*	/*
13	/* -- Code regenerated on 08/31/99 at 08:10:32.	/*	/*
14	/* -- Code regenerated on 11/10/99 at 15:59:13.	/*	/*
15	/* (( Codegen: CodeHistory ))	/*	/*
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100	/*	/*	/*

[illegible]



```

128 * Function Name: REST_AddFoundItem ( )
129 * Description:
130 * This routine will add a found object to the search results
131 * list box (at the end of the list box).
132 * Parameters:
133 * object (1) - The object to add
134 * backupTime (1) - The backup time for the object
135 * Success Outputs and Side Effects:
136 * None.
137 * Returns:
138 * None.
139 * ..*.....
140
141 static void REST_AddFoundItem (CRST_Object object,
142                               Time_t backupTime)
143 {
144     /* Create a new found object record */
145     /* New found object record */
146     REST_FoundObject* foundObject; /* New found object record */
147     foundObject = (REST_FoundObject*) (malloc(sizeof(
148                                     REST_FoundObject)));
149
150     /* Fill in the fields */
151     foundObject->backupTime = backupTime;
152     foundObject->object = object;
153     foundObject->next = NULL;
154
155     /* Put this on the end of the list of found objects */
156     if (lastFoundObject != NULL)
157     {
158         /* Rack it onto the end */
159         lastFoundObject->next = foundObject;
160     }
161     else
162     {
163         /* This is the only object, first and last */
164         firstFoundObject = foundObject;
165         lastFoundObject = foundObject;
166     }
167 }

```

```

176
177 /* REST_CheckForCancel
178 * Description:
179 * This routine will determine if the user has cancelled the search and
180 * will update the progress window.
181 * Parameters:
182 * None.
183 * Returns:
184 * TRUE - If the user has cancelled
185 * BOOL_FALSE - otherwise
186 * ..*.....
187
188 static Boolean REST_CheckForCancel (void)
189 {
190     static long lastNumFound = -1; /* Number of items found previously */
191     Char* outputString; /* String Line */
192     BoolNum retVal; /* Updated string to display */
193     /* Make sure the cancel dialog is still displayed */
194     if (synchsearchhandle != NULL)
195     {
196         /* If the number of entries found has changed, update the string */
197         if (REST_CurrentEntries != lastNumFound)
198         {
199             /* Build the new string */
200             if (REST_CurrentEntries != 0)
201             {
202                 STR_Printf (outputString, "Searching (REST_SEARCH_STATUS),
203                             REST_CurrentEntries);
204             }
205             else
206             {
207                 STR_Printf (outputString, "REST_GetErrorString (
208                             REST_SEARCH_IN_PROGRESS);
209             }
210             /* Update the progress dialog */
211             GALENT_UpdateMessage (synchsearchhandle, outputString);
212             /* Save the current number of entries */
213             lastNumFound = REST_CurrentEntries;
214
215             /* Return whether or not the user cancelled */
216             retVal = GALENT_IsCancelled(synchsearchhandle);
217         }
218         else
219         {
220             /* retVal = BOOL_TRUE;
221             */
222             return (retVal);
223         }
224     }
225 }

```

```

238  * REST_SearchStartTimeout
239  * Description:
240  * This routine will start the search.
241  * It is used to delay a bit to make
242  * sure the in progress dialog is visible.
243  * Parameters:
244  * clientData (i) - Unused.
245  * Returns:
246  * None.
247
248  static void REST_SearchStartTimeout (ClientPer clientData)
249  {
250  REST_SearchStartSearch ();
251  }

```

```

362  * REST_SearchCancel
363  * Description:
364  * This routine will remove the search in progress dialog and clear
365  * the current sync window handle.
366  * Parameters:
367  * None.
368  * Returns:
369  * None.
370
371  void REST_SearchCancel (void)
372  {
373  long numObjects;
374  GREST_ObjList foundObjects[1];
375  time_t time;
376  errno_t errno;
377
378  /* If there really is a search in progress, remove the dialog */
379  if (syncSearchHandle != NULL)
380  {
381  GALLERY_CancelSyncDialog (syncSearchHandle);
382  syncSearchHandle = NULL;
383  }
384
385  /* If there is a search in progress then cancel the find operation */
386  if (searchInProgress)
387  {
388  /* Cancel the find operation, ignore results */
389  EDMST_GetFindHandles (GREST_Handle,
390  1, &obj, &res);
391  FoundObjects,
392  times,
393  errno,
394  REST_SearchHook);
395  }
396
397  }

```



```

353 .....
354 * REST_SearcherFoundItem
355 .....
356 * Description:
357 * This routine will return the found item that would appear in the
358 * given row.
359 .....
360 * Parameters:
361 * row (i) - The row to find the item in
362 .....
363 * Returns:
364 * REST_FoundObjectRef - Item in row if row is valid
365 * - NULL if invalid row <= 0 or > number of rows
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```

```

399 .....
400 * REST_SearcherFoundItem
401 .....
402 * Description:
403 * This routine will return the found item that would appear in the
404 * given row.
405 .....
406 * Parameters:
407 * row (i) - The row to find the item in
408 .....
409 * Returns:
410 * REST_FoundObjectRef - Item in row if row is valid
411 * - NULL if invalid row <= 0 or > number of rows
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454 .....
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```

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```

399 .....
400 * REST_SearcherFoundItem
401 .....
402 * Description:
403 * This routine will update the sensitivity of the search results
404 * action buttons (
405 * mark, unmark, set view, clear) based on the current
406 * selections.
407 .....
408 * Parameters:
409 * None
410 .....
411 * Returns:
412 * None
413 .....
414 *
415 .....
416 *
417 .....
418 *
419 .....
420 *
421 .....
422 *
423 .....
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```

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```

453 3 ( (REST_MarkObj.setStatus (REST_Handle,
454 3 FoundObj->object) !=
455 3 Backup_Bad) ||
456 3
457 3 REST_MarkObj.class)
458 3 {
459 3     /* If it is markable, so enable the mark button */
460 3     markEnabled = BOOL_TRUE;
461 3 }
462 3
463 3 /* Else this object is marked so enable the unmark button */
464 3 else
465 3 {
466 3     unmarkEnabled = BOOL_TRUE;
467 3 }
468 3
469 3 /* Get the object at the next selected row position */
470 3 FoundObj = GUTL_LBox_GetSelectedObject (obj->window->FoundObj);
471 3
472 3 FoundObj = REST_SearchObjFoundItem (FoundObj);
473 3 }
474 3
475 3 /* If any items were in the list */
476 3 if (itemExists)
477 3 {
478 3     /* Only enable the set view button if only one object is selected */
479 3     if (selectedCount == 1)
480 3     {
481 3         setViewEnabled = BOOL_TRUE;
482 3     }
483 3 }
484 3 /* Apply what we have determined */
485 3 WGT_SetEnabled ((WGT)REST_SearchObj->MarkButton, markEnabled);
486 3 WGT_SetEnabled ((WGT)REST_SearchObj->UnmarkButton, unmarkEnabled);
487 3 WGT_SetEnabled ((WGT)REST_SearchObj->SetViewButton, setViewEnabled);
488 3 }

```

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```

489 3 /*
490 3 .....
491 3 * REST_SearchFillBox
492 3 *
493 3 * Description:
494 3 * This routine will fill the virtual listbox rows given the start
495 3 * row (number in row 1) and the bounds of the list box rows.
496 3 *
497 3 * Parameters: (1) - The virtual list box to fill
498 3 * startRow (1) - The real row number that is now in row 1
499 3 * bounds (1) - The number of rows in the list box
500 3 * Returns:
501 3 * None
502 3 *
503 3 .....
504 3
505 3 static void REST_SearchFillBox (LBox* lbox,
506 3 int32 startRow,
507 3 int16 bounds)
508 3 {
509 3     REST_FoundObj* rest_mobj;
510 3     int32 count = 0;
511 3     int16 row;
512 3     int16 i;
513 3     while (rest_mobj != NULL) {
514 3         /* get to the correct object in the list */
515 3         while ((rest_mobj != NULL) && (count < startRow))
516 3             count++;
517 3         rest_mobj = nextObj->next;
518 3     }
519 3     /* Put the next set of rows in the lbox, even if NULL */
520 3     REST_SearchBoxFrozen = BOOL_TRUE;
521 3     while (row <= bounds)
522 3     {
523 3         row = 1;
524 3         while (row <= bounds)
525 3         {
526 3             /* Go to the row (rows start at 1) */
527 3             LBox_GoToRow (lbox, row);
528 3             /* set the client data for this row */
529 3             LBox_CurrentClientData (lbox, (ClientPtr)nextObj);
530 3             /* go to the next object */
531 3             if (rest_mobj != NULL)
532 3                 rest_mobj = nextObj->next;
533 3             row++;
534 3         }
535 3         REST_SearchBoxFrozen = BOOL_FALSE;
536 3     }
537 3 }
538 3
539 3 /* Now fill in the client data */
540 3 LBox_GoToRow (REST_SearchObj->FoundBox);
541 3 row = 1;
542 3 while ((ClientData = LBox_CurrentClientData (
543 3     REST_SearchObj->FoundBox)) != NULL)
544 3 {
545 3     GUTL_PutStringDataWindow (REST_SearchObj->FoundBox,
546 3     ClientData,
547 3     NUMBER_FOUND_COLUMNS);
548 3     row++;
549 3 }
550 3
551 3 REST_GetSearchListCD (umValues);
552 3 }
553 3
554 3 row++;

```

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```

604 1  /* Set the data strings for the current backup case */
605 2  if (EMRST.GetCurrentBackupTime (EMRST_Handle, kcurrentTime) == 0)
606 3  {
607 4      stfTime (datestring,
608 5          SWAP_STRING_LENGTH,
609 6          "id and time for the current backup",
610 7          localTime (currentTime));
611 8  }
612 9  else
613 10 {
614 11     /* No current time (?), blank out the string */
615 12     stf_Cpy (datestring, "");
616 13 }
617 14
618 15 TED_Select ((
619 16     (HWND)EMRST_SearchWindow->StatusBarOutput, datestring);
620 17 TED_Select ((HWND)EMRST_SearchWindow->IndexOutput, datestring);
621 18 WM_SetClientArea ((HWND)EMRST_SearchWindow->StatusBarOutput, 1);
622 19 WM_SetClientArea ((HWND)EMRST_SearchWindow->IndexOutput, 1);
623 20 ClientPt(currentTime);
624 21
625 22 /* Make the list box a virtual list box */
626 23 GUTL_ListBox_SetVirtual (EMRST_SearchWindow->FoundBox,
627 24     EMRST_SearchWindow->FoundBox,
628 25     NULL,
629 26     EMRST_SearchFullListBox);
630 27
631 28 /* We ain't found nothing yet */
632 29 EMRST_ClearFoundBox (1);
633 30
634 31 /* Set the status flag */
635 32 EMRST_SearchTerminated = BOOL_FALSE;
636 33
637 34 /* Set the label for the window */
638 35 currentWt = EMRST.GetCurrentWorkItem (1);
639 36 stf_Cpy (name, EMRST.GetObjectFullName ((HWND)EMRST_SearchWindow, name);
640 37 GUTL_SetDefaultWindowTitle ((HWND)EMRST_SearchWindow, name);
641 38 EMRST_SearchDisplayed = BOOL_TRUE;
642 39
643 40 }
644 41 /* Put up the window */
645 42 WM_Show ((HWND)EMRST_SearchWindow);
646 43
647 44

```

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```

648 1 /*.....
649 2 * Function Name: EMRST_SearchDisplayInfo ()
650 3 * Description:
651 4 * This routine will free the info in the current cell.
652 5 *
653 6 * Parameters:
654 7 * Info (1) - The found object info pointer.
655 8 *
656 9 * Success Outputs and Side Effects:
657 10 None.
658 11
659 12 * Returns:
660 13 None.
661 14
662 15 .....
663 16 static void EMRST_SearchDisplayInfo (EMRST_FoundObjectPtr info)
664 17 {
665 18     /* Get the info */
666 19     if (info == NULL)
667 20     {
668 21         /* Free the restore object */
669 22         EMRST_FreeRestoreObjects (EMRST_Handle, info->object, 1);
670 23
671 24         /* Free the info */
672 25         GUTL_Free (info);
673 26     }
674 27 }
675 28
676 29

```

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```

680 /*****
681 * Function Name: RST_SearchRemove ()
682 * Description:
683 * This routine will remove the search window.
684 * Parameters:
685 * None.
686 * Success Outputs and Side Effects:
687 * None.
688 * Returns:
689 * None.
690 *
691 *
692 *
693 *
694 *
695 *****/
696 BoolNum RST_SearchRemove (void)
697 {
698     BoolNum      returnStatus; /* Duh, status to remove */
699     RST_FoundObjectPtr thisObject; /* Pointer to found object to dispose */
700     RST_FoundObjectPtr nextObject; /* Next found object in the list */
701
702     /* Do nothing if a restore is in progress */
703     if (RST_RestoreInProgress())
704     {
705         return (BOOL_FALSE);
706     }
707
708     /* We only care if the window is displayed */
709     if (RST_SearchDisplayed)
710     {
711         /* If the user is currently searching, stop the search */
712         RST_SearchCancel ();
713
714         /* Stop any alarms that were set */
715         RST_StopAlarm (ClientPtr) (RST_Handle);
716         RST_SearchDisplayed = BOOL_FALSE;
717
718         /* Remove the window, but no need to call us about it */
719         WM_Destroyance (WindowRST_SearchWindow);
720
721         /* Free the current found list */
722         thisObject = FirstFoundObject;
723         while (thisObject != NULL)
724         {
725             nextObject = thisObject->next;
726             RST_SearchDisposeInfo (thisObject);
727             thisObject = nextObject;
728         }
729         FirstFoundObject = NULL;
730         LastFoundObject = NULL;
731         RST_SearchWindow = NULL;
732
733         returnStatus = BOOL_TRUE;
734     }
735     else
736     {
737         returnStatus = BOOL_FALSE;
738     }
739 }
740
741
742

```

```

743 /* Return whether or not we actually had to remove the window */
744 return (returnStatus);
745

```

```

743 .....
744 * Function Name: RSTP_SearchWindowDisplayed ()
745 .....
746 * Description:
747 * This routine will determine if the search window is currently
748 * displayed.
749 * Parameters:
750 * None
751 * Success Outputs and Side Effects:
752 * None.
753 * Returns:
754 * BOOL_TRUE - If the window is displayed
755 * BOOL_FALSE - otherwise.
756 .....
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```

```

771 .....
772 * Function Name: RSTP_SearchEndTime ()
773 .....
774 * Description:
775 * This routine will query the user for a backup date/time and
776 * the date edit widget with the new date if selected.
777 * Parameters:
778 * timePtr (I) - The widget to set the time in.
779 * Success Outputs and Side Effects:
780 * None.
781 * Returns:
782 * None.
783 .....
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```

799 void RSTP_SearchEndTime (TclProc timePtr)
800 {
801     char dateString[SMALL_STRING_LENGTH]; /* New date string */
802     GtkWidget currentTime; /* Current work item */
803     time_t time_t; /* Current backup time */
804     newTime = 0; /* New backup time */
805     /* Do nothing if we're searching, or a restore is in progress */
806     if (RSTP_SearchInProgress() || RSTP_RestoreInProgress())
807         return;
808     /* Get the currently selected time */
809     currentTime = (time_t)WgtGetClientData (WgtPtr(timePtr));
810     /* Get the work item */
811     currentItem = RSTP_GetCurrentWorkItem ();
812     if (currentItem != NULL)
813     {
814         /* Query the user for the new start time */
815         newTime = RSTP_GetUserSelectedTime (currentItem,
816                                             WgtPtr(RSTP_SearchWindow));
817     }
818     /* If the user selected a time */
819     if (newTime != 0)
820     {
821         /* Get the new date string */
822         strftime (dateString,
823                 SMALL_STRING_LENGTH,
824                 "%d %d %H:%M",
825                 localtime (&newTime));
826         TkdSetText (TkdPtr(timePtr), dateString);
827         Wgt_SetClientData (WgtPtr(timePtr), (ClientData)newTime);
828     }
829 }

```

```

828 .....
829 * BEST_GetSearchColumnInfoValues .....
830 * Description: .....
831 * This routine will return the drawbox for the given information
832 * for the given search results table box column.
833 .....
834 .....
835 .....
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951 1 { /* get the string for the permissions */
952 2   STR_COPY (text, RMHST_GetPermissionsString (
953 3     GUEST_Handle, info->object));
954 4 }
955 5 else if (column == OWNER.COLUMN)
956 6 { /* get the string for the owner */
957 7   STR_COPY (text, RMHST_GetObjectOwnerString (
958 8     GUEST_Handle, info->object));
959 9 }
960 2 else if (column == GROUP.COLUMN)
961 3 { /* get the string for the group */
962 4   STR_COPY (text, RMHST_GetObjectGroupString (
963 5     GUEST_Handle, info->object));
964 6 }
965 2 else if (column == SIZE.COLUMN)
966 3 { /* get the string for the size */
967 4   size = RMHST_GetObjectSize (GUEST_Handle, info->object);
968 5   REST_SprintfType (text, size);
969 6   justification = DNAME_Justifier | DNAME_JUSTIFYCENTER;
970 7 }
971 2 else if (column == DATE.COLUMN)
972 3 { /* get the string for the date */
973 4   localtime = RMHST_GetObjectDate (GUEST_Handle, info->object);
974 5   strftime (text, CMAX_CELL_STRING_LENGTH, "%d %b", localtime);
975 6 }
976 2 else if (column == TIME.COLUMN)
977 3 { /* get the string for the time */
978 4   localtime = RMHST_GetObjectDate (GUEST_Handle, info->object);
979 5   strftime (text, CMAX_CELL_STRING_LENGTH, "%d %b", localtime);
980 6 }
981 2 }
982 3 else if (column == TIME.COLUMN)
983 4 { /* get the string for the time */
984 5   localtime = RMHST_GetObjectDate (GUEST_Handle, info->object);
985 6   now = time (localtime);
986 7 }
987 1 }
988 2 /* If the object is over a year old, display the year */
989 3 if ((now - localtime) > SECONDS_PER_YEAR)
990 4 { (now - localtime) > SECONDS_PER_YEAR
991 5   strftime (text, CMAX_CELL_STRING_LENGTH, "%Y", localtime);
992 6 }
993 1 }
994 2 /* Otherwise display the time */
995 3 else
996 4 { strftime (text, CMAX_CELL_STRING_LENGTH, "%H:%M", localtime);
997 5   strftime (text, CMAX_CELL_STRING_LENGTH, "%M", localtime);
998 6 }
999 2 }
1000 1 }
1001 1 }
1002 2 { /* Don't draw this cell */
1003 3 return = BOOL_TRUE;
1004 4 }
1005 1 }
1006 1 }
1007 1 }
1008 1 }
1009 1 }
1010 1 }

```

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restSearchMy.c.23

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```

1012 .....
1013 * REST_SearchInProgress
1014 * Description:
1015 * This routine returns whether or not a search is currently in
1016 * progress.
1017 .....
1018 * Parameters:
1019 * None.
1020 .....
1021 * Returns:
1022 * BOOL_TRUE - If a search has been started (
1023 * and is not yet finished)
1024 * BOOL_FALSE - Otherwise.
1025 .....
1026 *
1027 .....
1028 1 {
1029 2   return (searchInProgress);
1030 3 }
1031 1 }

```

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restSearchMy.c.24

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```

1184 4 {
1185 2     /* Flag that the search is done */
1186 2     searchInProgress = BOOL_FALSE;
1187 2
1188 2     /* Make sure the window is still active */
1189 2     if ( ! (REST_SearchWindow == NULL) )
1190 2     {
1191 2         /* Update the search result status
1192 2         */
1193 2         /* Update the status text */
1194 2         STR_Sprintf (searchString, "%d", REST_CurrentEntries);
1195 2         TMD_SetText (
1196 2             TMD_Get(REST_SearchWindow->ItemFoundText, searchString);
1197 2         );
1198 2         /* Fill the listbox */
1199 2         OUTIL_BoxFillActual (
1200 2             REST_SearchWindow->FoundBox, REST_CurrentEntries);
1201 2
1202 2         /* Update the search results action buttons */
1203 2         REST_SearchUpdateButtons ();
1204 2
1205 2         /* Remove the working dialog */
1206 2         REST_SearchCancel ();
1207 2
1208 2         /* If there was an error, display the error message */
1209 2         if (displayError)
1210 2         {
1211 2             /* Process event to remove the in progress dialog */
1212 2             EVENT_ProcessPending ();
1213 2
1214 2             /* Display the current error message */
1215 2             REST_DisplayErrorMessage (MAINPR,REST_SearchWindow,
1216 2                 REST_GetText(REST_Search_Window_TITLE),
1217 2                 NULL,
1218 2                 errorno);
1219 2
1220 2             REST_SearchFail();
1221 2         }
1222 2     }
1223 2
1224 2     else
1225 2     {
1226 2         /* (errorno == EP_NO_RECOVER, JNC_INCOMPLETE)
1227 2         if (errorno == EP_NO_RECOVER, JNC_INCOMPLETE)
1228 2         {
1229 2             /* Restore Search dialog
1230 2             (REST_SearchWindow, clientData,
1231 2                 RESTOR_START_TMD_RESULTS_DELAY);
1232 2             RESTOR_START_TMD_RESULTS_DELAY);
1233 2         }
1234 2         else
1235 2         {
1236 2             /* NEWPR_StartDialogItem (REST_SearchWindow,
1237 2                 RESTOR_START_TMD_RESULTS_DELAY);
1238 2             RESTOR_START_TMD_RESULTS_DELAY);
1239 2         }
1240 2     }
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1418 .....
1419 * Function Name: RST_SearchSetMark (/)
1420 * Description:
1421 * This routine will mark/unmark all selected items in the search results
1422 .....
1423 * Local Box:
1424 .....
1425 * Parameters:
1426 * setmark (1) - flag if the items should be marked or unmarked.
1427 .....
1428 Success Outputs and Side Effects:
1429 The selected items will be marked or unmarked for restore.
1430 .....
1431 Returns:
1432 * None.
1433 .....
1434
1435 void RST_SearchSetMark (Boolean setmark)
1436 {
1437     RST_FoundObject obj;
1438     // Next selected object
1439     long numberMarked;
1440     // Number of bad marks
1441     Boolean boolNum;
1442     // Flag if this mark worked
1443     Boolean boolNum;
1444     // Flag if any mark worked
1445     localSize;
1446     // Total marked size
1447     // Do nothing if we're searching or a restore is in progress
1448     if (RST_SearchInProgress() || RST_RestoreInProgress())
1449         return;
1450     // If any row are selected
1451     if (LOBX_GetRowSetFlag (RST_SearchWindow->Poundbox) == BOOL_TRUE)
1452     {
1453         // Go to the first row
1454         LOBX_GetRow (RST_SearchWindow->Poundbox);
1455         // Loop through all rows that have data
1456         while ( (info = RST_FoundObjectGetInfo (RST_SearchWindow->Poundbox)) != NULL)
1457         {
1458             // If this row is selected, set the mark appropriately
1459             if (LOBX_IsRowSelected (RST_SearchWindow->Poundbox))
1460             {
1461                 // If this is a mark operation, then mark it for restore
1462                 if (setmark)
1463                 {
1464                     if (GREST_IsObjectMarkedForTime (
1465                         GREST_Handle, info->Object, info->BackupTime))
1466                     {
1467                         thisMark = RST_MarkRestoreableObject (info->Object,
1468                             info->BackupTime,
1469                             numberMarked,
1470                             numberBad);
1471                     }
1472                 }
1473                 // Otherwise, unmark it for restore
1474                 else
1475                 {
1476                     if (GREST_IsObjSetMarkedForTime (
1477                         RST_SearchWindow->Poundbox)
1478                     {
1479                         // If any mark or unmark was successful, update the flag
1480                         if (anyMark)
1481                         {
1482                             // Redraw the list boxes to update the current marks
1483                             SARX_SetDrawParts ((SARXPtr)RST_SearchWindow->Poundbox);
1484                             SARX_SetDrawParts ((SARXPtr)RST_SearchWindow->BackupList);
1485                             SARX_SetDrawParts ((SARXPtr)RST_RestoreWin->SelectedList);
1486                             SARX_SetDrawParts ((SARXPtr)RST_RestoreWin->SelectedList);
1487                         }
1488                         // Update the mark information
1489                         EMRST_GetMarkedInfo (GREST_Handle, localSize);
1490                         EMRST_GetMarkedInfo (numberMarked,
1491                             numberBad,
1492                             localSize);
1493                     }
1494                 }
1495             }
1496             // Update the search results action buttons
1497             RST_SearchUpdateButtons (1);
1498         }
1499     }
1500 }
1501
1502 {
1503     thisMark = RST_UnmarkRestoreableObject (info->Object,
1504         info->BackupTime,
1505         numberMarked,
1506         numberBad);
1507 }
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1580 1 /*.....
1581 1 * Function Name: REST_ClearFoundBox ()
1582 1 *
1583 1 * Description:
1584 1 * This routine will clear all items from the search results list
1585 1 * box.
1586 1 *
1587 1 * Parameters:
1588 1 * None.
1589 1 *
1590 1 * Success Outputs and Side Effects:
1591 1 * The search results list box will be empty.
1592 1 *
1593 1 * Returns:
1594 1 * None.
1595 1 *.....
1596 1
1597 1 void REST_ClearFoundBox (void)
1598 1 {
1599 1     REST_FoundObjectPtr chObj;
1600 1     REST_FoundObjectPtr nextObj;
1601 1
1602 1     /* Free the current found list */
1603 1     chObj = REST_FoundObject;
1604 1     while (chObj != NULL)
1605 1     {
1606 1         nextObj = chObj->next;
1607 1         REST_DeleteObjectInto (chObj);
1608 1         chObj = nextObj;
1609 1     }
1610 1     firstFoundObject = NULL;
1611 1     lastFoundObject = NULL;
1612 1
1613 1     /* Set everything to zero and blank */
1614 1     TEXT_SetText (TEXT_FindItem->ItemFoundText, "");
1615 1
1616 1     /* Reset the list box and start at the beginning */
1617 1     ListBox_Reset (TEXT_FindItem->ListBox);
1618 1     ListBox_Delete (TEXT_SearchWindow->ListBox);
1619 1     ListBox_Create (TEXT_SearchWindow->ListBox);
1620 1
1621 1     GUTL_Load_PILVirtual (REST_SearchWindow->FoundBox, 0);
1622 1
1623 1     /* Update the search results action buttons */
1624 1     REST_SearchButtons ();
1625 1 }

```

```

1627 1 /*.....
1628 1 * Function Name: REST_SearchInitialize ()
1629 1 *
1630 1 * Description:
1631 1 * This routine will initialize the use of the search window
1632 1 * functions.
1633 1 *
1634 1 * Parameters:
1635 1 * None.
1636 1 *
1637 1 * Success Outputs and Side Effects:
1638 1 * None.
1639 1 *
1640 1 * Returns:
1641 1 * None.
1642 1 *.....
1643 1
1644 1 void REST_SearchInitialize (void)
1645 1 {
1646 1     static Boolean initialized = BOOL_FALSE;
1647 1     /* flag if we have init'd yet */
1648 1     if (!initialized)
1649 1     {
1650 1         /* One the icons */
1651 1         searchIcon = GICON_GetIconOfSize (I_DIALOGED, ICON_SMALL);
1652 1         searchFlagIcon = GICON_GetIconOfSize (I_FILE, ICON_SMALL);
1653 1         searchCheckBoxIcon = GICON_GetIconOfSize (I_CHECK, ICON_SMALL);
1654 1         searchOffSetIcon = GICON_GetIconOfSize (I_SELECTED_CHECK, ICON_SMALL);
1655 1         searchOnSetIcon = GICON_GetIconOfSize (I_SELECTED_CHECK, ICON_SMALL);
1656 1         searchOffSetIcon = GICON_GetIconOfSize (I_DIALOGED, ICON_SMALL);
1657 1
1658 1         searchBadIcon = GICON_GetIcon (I_DIALOGED);
1659 1
1660 1         /* flag that we have already initialized */
1661 1         initialized = BOOL_TRUE;
1662 1     }
1663 1 }

```





```

99  /*.....*/
100  * REST_GetErrorString
101  *
102  * Description:
103  * This routine will retrieve the error string for the given error
104  * index.
105  * Parameters:
106  *   errorIndex (i) - Index of the error string to retrieve
107  * Returns:
108  *   Static pointer to the error string (Do not overwrite!)
109  *
110  *.....*/
111  static char* REST_GetErrorString (int errorIndex)
112  {
113      /* Build code in string format */
114      char messageCode[SMALL_STRING_LENGTH];
115      /* Build the message code using the given index */
116      sprintf (messageCode, "%d", REST_MESSAGE_HEADERS, errorIndex);
117      /* Return the string at the index into the error message list */
118      return (getString (restIndexList, messageCode));
119  }
120
121
122

```

```

124  /*.....*/
125  * REST_DisplayErrorMessage
126  *
127  * Description:
128  * This routine will display the error dialog with the given message
129  * and the text string for the given error code. If the errorText given
130  * is NULL, only the error message string will be displayed.
131  * Parameters:
132  *   title (i) - Title of the error window (may be NULL)
133  *   errMsg (i) - The error code
134  * Returns:
135  *   None.
136  *.....*/
137  void REST_DisplayErrorMessage (WINDOW parent,
138                                title,
139                                errMsg,
140                                errorText)
141  {
142      char outputString[SMALL_STRING_LENGTH]; /* string to display */
143      char errMsgStr[SMALL_STRING_LENGTH]; /* title to display */
144      /* Create the error text string to display */
145      if (errorText != NULL)
146          sprintf (outputString, "%s\n", errorText, e_get_error_text(
147                  errMsg));
148      else
149          /* Create the title to display */
150          sprintf (errMsgStr, "%s", REST_ERROR_INDEX);
151      /* Create the title to display */
152      sprintf (outputString, "%s\n", errMsgStr);
153      /* Display the error window */
154      GALERT_DisplayError (parent,
155                          errMsgStr,
156                          outputString);
157  }
158
159
160

```



```

170 /*****
171  * REST_SprintfHyper
172  * Description:
173  * This routine will fill the given string with a textual
174  * representation
175  * of the given hyper.
176  * Parameters:
177  * string (I) - The pre-allocated string to fill
178  * size (I) - The hyper to represent
179  * Returns:
180  * None.
181  *****/
182
183 void REST_SprintfHyper (STR string,
184                        u_hyper size)
185 {
186     /* print the hyper to the string */
187     if (hyper_is_ulong(size))
188     {
189         STR_Sprintf (string, "%u", size_low);
190     }
191     else
192     {
193         STR_Sprintf (string, "%s", format_u_hyper_for_output(size, 1, 0));
194     }
195 }

```

```

196 /*****
197  * REST_ScanHyper
198  * Description:
199  * This routine will retrieve a hyper from the given string.
200  * Parameters:
201  * string (I) - The string to read
202  * size (I) - The hyper to read into
203  * Returns:
204  * None.
205  *****/
206
207 void REST_ScanHyper (STR string,
208                     u_hyper *size)
209 {
210     /* Call the api routine to read the hyper */
211     string_to_u_hyper (string, size);
212 }

```

<pre> 218  /*..... 219  * REST_GetGroupString 220  * 221  * Description: 222  *   For the given info, return a string representation of the group 223  *   for the given info. 224  * 225  * Parameters: 226  *   Info (I) - The item to get the group for. 227  * 228  * Returns: 229  *   A string representation of the group (Copy immediately) 230  * 231  *..... 232  */ 233  SET REST_GetGroupString (RestoreInfoPtr Info) 234  { 235  /* Static Char returnString(SMALL_STRING_LENOUT); */ 236  SET 237  groupString; 238  IF (Info-&gt;restoreObj != NULL) 239  { 240  groupString = (SET)EDMRST_GetObjSetGroupString (GRST_Handle, 241  Info-&gt;restoreObj); 242  } 243  IF (groupString != NULL) 244  { 245  STR_Copy (returnString, groupString); 246  } 247  ELSE 248  { 249  STR_Copy (returnString, ""); 250  } 251  ELSE 252  { 253  STR_Copy (returnString, ""); 254  } 255  return (returnString); 256  } 257  </pre>	<pre> 259  /*..... 260  * REST_GetOwnerString 261  * 262  * Description: 263  *   This routine will return a string representation of the owner 264  *   for the given info. 265  * 266  * Parameters: 267  *   Info (I) - The item to get the owner for. 268  * 269  * Returns: 270  *   A string representation of the owner (Copy immediately) 271  * 272  *..... 273  */ 274  SET REST_GetOwnerString (RestoreInfoPtr Info) 275  { 276  /* Static Char returnString(SMALL_STRING_LENOUT); */ 277  SET 278  ownerString; 279  IF (Info-&gt;restoreObj != NULL) 280  { 281  ownerString = (SET)EDMRST_GetObjSetOwnerString (GRST_Handle, 282  Info-&gt;restoreObj); 283  } 284  IF (ownerString != NULL) 285  { 286  STR_Copy (returnString, ownerString); 287  } 288  ELSE 289  { 290  STR_Copy (returnString, ""); 291  } 292  ELSE 293  { 294  STR_Copy (returnString, ""); 295  } 296  return (returnString); 297  } 298  </pre>
<pre> Page 411 of 444 result.c.7 Fri Jan 04 14:31:46 2008 </pre>	<pre> Page 412 of 444 result.c.8 Fri Jan 04 14:31:46 2008 </pre>

```

300 .....
301 * REST_GetPermString .....
302 * Description: .....
303 * This routine will return a string representation of the .....
304 * permissions .....
305 * for the given info. .....
306 * Parameters: .....
307 * Info (I) - The item to get the permissions for. .....
308 * Returns: .....
309 * A string representation of the permissions (copy immediately) .....
310 .....
311 .....
312 .....
313 * REST_GetPermString (ResourceObject, info)
314 {
315     static char returnString[SMALL_STRING_LENGTH]; /* String to return */
316     int permString;
317     if (info->resourceObject != NULL)
318     {
319         permString = REST_GetPermissionsString (
320             permString, info->resourceObject);
321         if (permString != NULL)
322             returnString = permString;
323         else
324             returnString = "";
325     }
326     else
327     {
328         returnString = "";
329     }
330     return (returnString);
331 }

```

```

340 .....
341 * REST_GetTimeDateString .....
342 * Description: .....
343 * This routine will return a string representation of the time and .....
344 * date .....
345 * for the given info. .....
346 * Parameters: .....
347 * Info (I) - The item to get the time and date for. .....
348 * Returns: .....
349 * A string representation of the time and date (copy immediately) .....
350 .....
351 .....
352 * REST_GetTimeDateString (line, & time)
353 {
354     static char returnString[MEDIUM_STRING_LENGTH]; /* String to return */
355     struct tm *tm;
356     if (line != NULL)
357     {
358         tm = localtime(&time);
359         returnString = "Time/Date: ";
360         return (returnString);
361     }
362     else
363     {
364         returnString = "";
365     }
366     return (returnString);
367 }

```

```

367 .....
368 * REST_GetSizeString .....
369
370 * Description:
371 * This routine will return a string representation of the size
372 * for the given info.
373
374 * Parameters:
375 * Info (t) - The item to get the size for.
376
377 * Returns:
378 * A string representation of the size (copy immediately)
379 .....
380
381 Str REST_GetSizeString (RestoreInfoPtr Info)
382 {
383     static Char returning[MEDIUM_STRING_LENGTH];
384     /* String to return */
385
386     u_hyper    size;
387     /* Size for the object */
388
389     if ((Info->type != REST_Client) &&
390         (Info->type != REST_Middleware) &&
391         (Info->restoreObject != NULL))
392     {
393         size = ERMST_GetObjectSize(GRST_Handle, Info->restoreObject);
394     }
395     else
396     {
397         size.High = 0;
398         size.Low = 0;
399     }
400
401     REST_SprintfHyper (returning, size);
402     return (returning);
403 }

```

```

404 .....
405 * REST_GetDateString .....
406
407 * Description:
408 * This routine will return a string representation of the Date
409 * for the given info.
410
411 * Parameters:
412 * Info (t) - The item to get the Date for.
413
414 * Returns:
415 * A string representation of the date (copy immediately)
416 .....
417
418 Str REST_GetDateString (RestoreInfoPtr Info)
419 {
420     static Char returning[MEDIUM_STRING_LENGTH];
421     /* String to return */
422
423     time_t    theTime;
424     /* Time of the object */
425
426     if (Info->restoreObject != NULL)
427     {
428         theTime = ERMST_GetObjectDate(
429             GRST_Handle, Info->restoreObject);
430     }
431     else
432     {
433         theTime = ERMST_GetObjectDate(
434             GRST_Handle, Info->restoreObject);
435     }
436     if (theTime != 0)
437     {
438         strftime (returning,
439             MEDIUM_STRING_LENGTH,
440             "%b %d",
441             localtime (&theTime));
442     }
443     else
444     {
445         SFR_Copy (returning, "");
446     }
447     return (returning);
448 }

```

```

439 /*.....
440 * RSST_GetTimeString
441 .....
442 * Description:
443 * This routine will return a string representation of the time
444 * for the given info.
445 * Parameters:
446 * Info (I) - The item to get the time for.
447 * Returns:
448 * A string representation of the time (copy immediately)
449 .....
450 */
451
452 SET RSST_GetTimeString (RastoreInfoPtr Info)
453 {
454     time_t modificationTime; /* Time of the object */
455     time_t now; /* Current time */
456     static char returnString[MEDIUM_STRING_LENGTH]; /* String to return */
457
458     if (Info->responseObject == NULL)
459     {
460         /* Get the modification time */
461         modificationTime = RSST_GetObjectDate (RSST_Handle
462             Info->responseObject);
463     }
464     /* If the time is more than 6 months old, show the year only */
465     now = time(&time_t);
466     if ((now - modificationTime) > (SECONDS_PER_YEAR / 2))
467     {
468         strftime (returnString,
469             MEDIUM_STRING_LENGTH,
470             "%Y",
471             localtime (&modificationTime));
472     }
473     /* Otherwise, show the time */
474     else
475     {
476         strftime (returnString,
477             MEDIUM_STRING_LENGTH,
478             "%H:%M",
479             localtime (&modificationTime));
480     }
481     else
482     {
483         STR_COPY (returnString, "");
484     }
485     return (returnString);
486 }
487
488 }

```

```

491 /*.....
492 * RSST_StripDirectoryChars
493 .....
494 * Description:
495 * This routine will strip off the ending directory characters from
496 * the given string.
497 * Parameters:
498 * dirstring (I) - The string to strip
499 * Returns:
500 * None.
501 .....
502 */
503
504 void RSST_StripDirectoryChars (STR dirstring)
505 {
506     BOOLFound; /* Flag if we verified last char */
507     lastCharFound = BOOL_FALSE;
508     int lastChar; /* Current position of last char */
509
510     /* Strip off trailing spaces and directory markers */
511     while ((lastCharFound) && (lastChar > 0))
512     {
513         /* Check if the last character is a blank or directory marker */
514         if ((dirstring[lastChar] == ' ') ||
515             (dirstring[lastChar] == '\\'))
516         {
517             /* Remove the character from the string */
518             dirstring[lastChar] = '\0';
519             lastChar--;
520         }
521         else
522         {
523             /* Valid character */
524             lastCharFound = BOOL_TRUE;
525         }
526     }
527 }
528
529 }
530
531 }

```

```

535 .....
536 * REST_GetFullName .....
537
538 * Description:
539 * This routine will return a string representation of the FullName
540 * for the given info.
541
542 * Parameters:
543 * Info (i) - The item to get the FullName for.
544
545 * Returns:
546 * A string representation of the FullName (copy immediately)
547 .....
548
549 SET REST_GetFullName (RestoreInfoPtr info)
550 {
551     static SET returning = NULL; /* The string to return */
552
553     /* Free the old string if necessary */
554     if (returning != NULL)
555         free (returning);
556
557     /* If this is a client, the full name is the name */
558     if (info->type == REST_Client)
559     {
560         returning = strdup (info->name);
561     }
562
563     /* If this is a resource object,
564      * else if (info->resourceObject != NULL)
565     {
566         returning = strdup (RESOURCE_GetObjectName (
567             REST_Handle, info->resourceObject));
568     }
569
570     /* Else, just return the name (this should never happen) */
571     else
572     {
573         returning = strdup (info->name);
574     }
575
576     /* Strip off any trailing directory characters */
577     if ((info->type == REST_Client) &&
578         (info->type != REST_WorkItem) &&
579         (info->type != REST_FilenameOfItem))
580     {
581         REST_StripDirectoryChars (returning);
582     }
583
584     return (returning);
585 }

```

```

587 .....
588 * REST_GetNameString .....
589
590 * Description:
591 * This routine will return a string representation of the Name
592 * for the given info.
593
594 * Parameters:
595 * FileInfo (i) - The item to get the Name for.
596
597 * Returns:
598 * A string representation of the Name (copy immediately)
599 .....
600
601 SET REST_GetNameString (OPENR_Context Page,
602     OPENR_Object FileInfo)
603 {
604     RestoreInfoPtr info; /* Real info for the object */
605
606     info = (RestoreInfoPtr)FileInfo;
607
608     return (info->name);
609 }

```

```

612 */
613 * RST_GetParentString
614 *
615 * Description:
616 * This routine will return whether or not the given parent is the
617 * parent of the given full child name.
618 * Parameters:
619 *   (1) - The parent to check.
620 *   children (1) - The full name of the child looking for.
621 *
622 * Returns:
623 *   BOOL_TRUE - if it is the parent.
624 *   BOOL_FALSE - if it is not the parent.
625 *
626 */
627
628 Boolean RST_GetParentString (ResourceIndex parent,
629                             childName)
630 {
631     Str
632     fullParentName; /* Full path for parent */
633     Int
634     length; /* Length of the full path name for parent */
635     Bool
636     boolParent; /* Value to return */
637
638     /* Get the full path name for the parent object */
639     fullParentName = estr_string (RST_GetFullName(parent));
640     length = StrLen(fullParentName);
641
642     /* If the parent name ends in a directory marker,
643     * compare only before it */
644     if ((fullParentName[length-1] == '\\') ||
645         (fullParentName[length-1] == '/'))
646     {
647         /* Decrease our comparison by a character */
648         length--;
649     }
650
651     /* Check that they match up to the end of the parent name
652     * and then the next child character is the dir symbol ('/')
653     * or the end of the string (files are children of themselves).
654     */
655     if (Strncmp (fullParentName, childrenName, length) == CMP_EQUAL)
656     {
657         retVal = (Strncmp (length == '\\') ||
658                     (length == '/'))
659         {
660             /*
661             * childName[length] == '/'
662             */
663             retVal = BOOL_TRUE;
664         }
665     }
666     else
667     {
668         retVal = BOOL_FALSE;
669     }
670
671     /* Now free the full name */
672     destr_free (fullParentName);
673
674     return (retVal);
675 }

```

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```

676 */
677 * RST_GetStatusIcon
678 *
679 * Description:
680 * This routine will return the status overlay icon for the given
681 * resource object status.
682 * Parameters:
683 *   status (1) - The status of the object.
684 *
685 * Returns:
686 *   IconPtr - The icon to display as the overlay icon, possibly NULL
687 *
688 */
689
690 IconPtr RST_GetStatusIcon (BackupStatus status)
691 {
692     IconPtr returnIcon;
693
694     /* If expired, return the expired icon */
695     if (status == Backup_Expired)
696     {
697         returnIcon = RST_ExpiredIcon;
698     }
699
700     /* Else if expired children, return the missing children icon */
701     else if (status == Backup_Child_Missing_Data)
702     {
703         returnIcon = RST_MissingChildrenIcon;
704     }
705
706     /* Else if the object status is bad, return the bad icon */
707     else if (status == Backup_Bad)
708     {
709         returnIcon = RST_BadIcon;
710     }
711
712     /* Else return no icon */
713     else
714     {
715         returnIcon = NULL;
716     }
717
718     return (returnIcon);
719 }

```

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```

718 .....
719 * RST_GetIcon
720 .....
721 * Description:
722 * This routine will return the icon to display for the given object.
723 * This routine is generally called from the file manager.
724 .....
725 * Parameters:
726 *   * fInfoObject (I) - The object
727 *   * fIcon (I) - Flag if the object is "open"
728 .....
729 * Returns:
730 *   The icon to display (can be NULL).
731 .....
732 .....
733 IconFile RST_GetIcon (OPNPR Context fPr;
734   OPNPR Object fInfoObject,
735   Boolean fIcon)
736 {
737   RstContextInfo info; /* The real info for the object */
738   IconFile returnIcon; /* The icon to display */
739 .....
740   /* Cast back to the real object */
741   info = (RstContextInfo)fInfoObject;
742 .....
743   /* Get the status icon */
744   returnIcon = RST_GetStatusIcon (info->status);
745 .....
746   /* If status does not need to be displayed, display the object icon */
747   if (returnIcon == NULL)
748   {
749     /* If this object is open and it is a directory,
750      * return the dir open icon */
751     if ((fIcon) && (info->type == RST_Directory))
752       returnIcon = RST_DirOpenIcon;
753     /* Else return the current icon for the object */
754     else
755       returnIcon = info->icon;
756 .....
757   /* Return the icon */
758   return (returnIcon);
759 .....
760 .....
761 .....

```

```

763 .....
764 * RST_GetIcon2
765 .....
766 * Description:
767 * This routine will return the icon to display for the given object.
768 * This routine is generally called from the file manager.
769 .....
770 * Parameters:
771 *   * fInfoObject (I) - The object
772 *   * fIcon (I) - Flag if the object is "open"
773 .....
774 * Returns:
775 *   The icon to display (can be NULL).
776 .....
777 .....
778 IconFile RST_GetIcon2 (OPNPR Context fPr;
779   OPNPR Object fInfoObject,
780   Boolean fIcon)
781 {
782   RstContextInfo info; /* The real info for the object */
783   IconFile returnIcon; /* The icon to display */
784 .....
785   /* Cast back to the real object */
786   info = (RstContextInfo)fInfoObject;
787 .....
788   tempIcon = RST_GetStatusIcon (info->status);
789 .....
790   /* If status needed to be displayed, display the object icon second */
791   if (tempIcon != NULL)
792   {
793     /* If this object is open and it is a directory,
794      * return the dir open icon */
795     if ((fIcon) && (info->type == RST_Directory))
796       returnIcon = RST_DirOpenIcon;
797     /* Else return the current icon for the object */
798     else
799       returnIcon = info->icon;
800 .....
801   }
802   else
803   {
804     returnIcon = NULL;
805 .....
806   }
807   /* Return the icon */
808   return (returnIcon);
809 .....
810 .....
811 .....

```



```

812 /.....
813 * REST.getOverlayIcon
814 *
815 * Description:
816 * This routine will return the overlay icon to display for the
817 *
818 * This routine is generally called from the file manager.
819 *
820 * Parameters:
821 * FileObject (I) - The object
822 *
823 * Returns:
824 * The overlay icon to display (can be NULL).
825
826
827 Iconifer REST.getOverlayIcon (GEMM_CONTEXT THIS
828 ICONIFER
829 FILEOBJECT
830 FILEOBJECT)
831 {
832     return (NULL);
833 }

```

```

833 /.....
834 * REST.getOverlayIcon2
835 *
836 * Description:
837 * This routine will return the overlay icon to display for the
838 *
839 * This routine is generally called from the file manager.
840 *
841 * Parameters:
842 * FileObject (I) - The object
843 *
844 * Returns:
845 * The overlay icon to display (can be NULL).
846
847
848 Iconifer REST.getOverlayIcon2 (GEMM_CONTEXT THIS
849 ICONIFER
850 FILEOBJECT
851 FILEOBJECT)
852 {
853     return (NULL);
854 }

```

```

854 .....
855 * REST_DisposeInfo
856 *
857 * Description:
858 * This routine will free the info memory associated with the given
859 * object.
860 *
861 * Parameters: (I) - The item to dispose of.
862 *
863 * Info
864 * Returns:
865 * None.
866 .....
867 void REST_DisposeInfo (RestoreInfoPtr info)
868 {
869     /* Sanity check, make sure no bonthead called us with a NULL info */
870     if (info == NULL)
871     {
872         /* Free up the name for this object */
873         GRTL_Free (info->name);
874     }
875     /* Free up the error string if it existed */
876     if (info->errorString != NULL)
877     {
878         GRTL_Free (info->errorString);
879     }
880     /* Free up the object */
881     GRTL_Free (info);
882 }
883
884
885

```

```

887 .....
888 * REST_FreeNode
889 * Description:
890 * This routine will free all memory associated with the given
891 * object
892 * and all of the object's children.
893 *
894 * Parameters: (I) - The item to free.
895 *
896 * Info
897 * Returns:
898 * None.
899 .....
900 void REST_FreeNode (RestoreInfoPtr info)
901 {
902     /* RestoreInfoPtr childInfo; /* Child info to free */
903     RestoreInfoPtr nextChild; /* Pointer to next child */
904     RestoreInfoPtr nextChild; /* Pointer to next child */
905     /* Make sure there is info to free */
906     if (info == NULL)
907     {
908         /* Free up any children of this object */
909         childInfo = info->children;
910         while (childInfo != NULL)
911         {
912             nextChild = childInfo->next;
913             REST_FreeNode (childInfo);
914             childInfo = nextChild;
915         }
916     }
917     /* Free up the associated restorable object if it exists */
918     if (info->restorableObject != NULL)
919     {
920         GKREST_FreeRestorableObjects (
921             GKREST_Handle, &info->restorableObject, 1);
922     }
923     /* Free up the memory for this object */
924     REST_DisposeInfo (info);
925 }
926
927
928

```



```

1028 .....
1029 * REST_IsBadObject
1030 .....
1031 * Description:
1032 * This routine will determine if the object status is bad.
1033 * Parameters:
1034 *   (1) - The object to check the status of.
1035 * Returns:
1036 *   BOOL_TRUE - If the object status is bad
1037 *   BOOL_FALSE - otherwise
1038 .....
1039 Boolean REST_IsBadObject (RestoreInfoPtr info)
1040 {
1041     Boolean returnValue; /* value to return */
1042
1043     /* If this is a restore API object and it has a bad status */
1044     if (info->status == Backup_Bad)
1045     {
1046         /* This is a bad, bad, object */
1047         returnValue = BOOL_TRUE;
1048     }
1049     else
1050     {
1051         /* This object has been very good */
1052         returnValue = BOOL_FALSE;
1053     }
1054     /* Return whether or not the object is bad */
1055     return (returnValue);
1056 }
1057

```

```

1058 .....
1059 * REST_IsHasChildren
1060 .....
1061 * Description:
1062 * This routine is provided for the file manager. It determines
1063 * if the given object can have children.
1064 * Parameters:
1065 *   FileInfoPtr (1) - Object to check for children.
1066 * Returns:
1067 *   None.
1068 .....
1069 Boolean REST_IsHasChildren (GEMM_Generate_FilePtr
1070                           GEMM_Object_FileObject)
1071 {
1072     RestoreInfoPtr info;
1073
1074     /* Real representation of the object */
1075     Boolean returnValue; /* value to return */
1076     /* Get the real data type for the object */
1077     info = (RestoreInfoPtr)FileObject;
1078
1079     /* If this is a directory, client, or a work-item, it has children */
1080     if ((info->type == REST_Directory) ||
1081         (info->type == REST_Client) ||
1082         (info->type == REST_WorkItem))
1083     {
1084         /* This object has children */
1085         returnValue = BOOL_TRUE;
1086     }
1087     else
1088     {
1089         /* Otherwise it has no children */
1090         returnValue = BOOL_FALSE;
1091     }
1092     /* Return whether or not it has children */
1093     return (returnValue);
1094 }
1095

```

```

1102  * RSTL_StandardSlash
1103  *
1104  * Description:
1105  * This routine is provided to convert the given path into
1106  * standard UNIX format, i.e., C:\ABC will be modified as /C:/ABC
1107  * All backslashes will be made forwardslashes if a colon appears
1108  * after the first slashdot.
1109  *
1110  * Parameters:
1111  * Str : The data in this string is modified.
1112  *
1113  * Returns:
1114  * BOOL, TRUE
1115  *
1116  *
1117  *
1118  *
1119  BoolFrom_RSTL_StandardSlash(Str pathname)
1120  {
1121  int i;
1122  int pathlength = strlen(pathname);
1123  if(pathname == NULL || pathlength < 2 )
1124  return BOOL_FALSE;
1125  /* NT style paths have first character as a drive name, i.e.,
1126  character followed by a colon */
1127  if( ' ' == pathname[1] &&
1128  {toupper(pathname[0]) >= 'A' && toupper(
1129  pathname[0]) <= 'Z' ) )
1130  {
1131  pathname[1] = pathname[0];
1132  pathname[0] = '/';
1133  }
1134  /* If it is NT style path,
1135  * info forward slashes.
1136  */
1137  for(i=2; i<pathlength; i++)
1138  {
1139  if( '\\' == pathname[i] ) /* need another back slash to hide
1140  pathname[i] = '/';
1141  }
1142  return BOOL_TRUE;
1143  }
1144  }

```



[illegible]

```

66 #include "restClient.h"
67 #include "restDriver.h"
68 #include "restProgress.h"
69 #include "restQuestion.h"
70 #include "restAnswer.h"
71 #include "getll/guideLines.h"
72 #include "getll/guideIs.h"
73 #include "pull/pullContext.h"
74 #include "pull/pullContextLib.h"
75 #include "getll/alertMsg.h"
76
77 //*****
78 Local Data Structures *****
79
80
81 //*****
82 //*****
83 //*****
84 //*****
85 //*****
86 //*****
87
88 //*****
89 //*****
90 //*****
91 //*****
92 //*****
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124	errorOnDisplayed = BOOL_TRUE;	
125	/* Ask the user if he/she wants to continue anyways */	
126	if (GALBERT_DisplayQuestion (WinPtr,REST_RestoreWin,	
127	REST_GetRestoreString(	
128	REST_GetRestoreString(	
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205 1 /* Else we have no host ?? */
206 1 else
207 2 {
208 2     STR_Cpy (hostname, "");
209 2 }
210 1 /* Default the directory name to the root directory */
211 1 STR_Cpy (dirname, "/");
212 1
213 1 if (REST_GetDestinationInfo (&ipinfo,
214 1     &hostname,
215 1     &dirname,
216 1     &port,
217 1     &hostname,
218 1     &port))
219 2 {
220 2     return (0);
221 2 }
222 2
223 2 {
224 2     /* Submit the request */
225 2     if (!error = REST_Submit (GWSRC_Handle,
226 2         &ipinfo,
227 2         &hostname,
228 2         &dirname,
229 2         &port,
230 2         0,
231 2         NULL)) != 0)
232 3 {
233 3     REST_DisplayErrorMessage (WinPcap|REST_RestoreWin,
234 3         NULL,
235 3         REST_GetErrorString (
236 3             REST_START_ERROR,
237 3             error));
238 3 }
239 1
240 1 }
241 1

```

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resStamMj c 8

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